DOCUMENT RESUME

ED 115 879 CE 005 717

TITLE	Fall Department Head Report--Reporting Booklet 2.0 to the Massachusetts Division of Occupational Education (Fiscal Year Ending June 30, 1975) for Electronics Program.
INSTITUTION	Management and Information System for Occupational Education, Winchester, Mass.
SPONS AGENCY	Massachusetts State Dept. of Education, Boston. Div. of Occupational Education.
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EDRS PRICE	MF-$0.76 HC-$10.78 Plus Postage
DESCRIPTORS	Annual Reports; Census Figures; Data Collection; Demonstration Projects; *Educational Objectives; *Electronics; Job Skills; *Management Information Systems; Program Design; Program Evaluation; *Records (Forms); State Programs; Trade and Industrial Education; *Vocational Education
IDENTIFIERS	Census Data System; *Management Information System Occupational Educa; MISOE; Terminal Performance Objectives; TERMOBS

ABSTRACT

The reporting booklet is required for the Census Data System (CDS) of the Management Information System for Occupational Education (MISOE); it contains the reporting forms which collect data that describe program structure and job-entry skill outcomes expected of program completors in the individual occupational education area of electronics. Utilization of instructional area is also determined. This booklet contains the terminal performance objectives (TERMOBS) for this program area. They are actually the forms by which the skills of program completors are reported by department heads. CDS, one of two major subsystems of the integrated management information system, was developed to provide occupational education managers with comprehensive data on which to base rational management decisions. Essentially, CDS contains descriptive information systematically structured in a manner which allows it to be used as a basis for sampling evaluative research studies. CDS collects and stores census data for all school systems offering occupational education programs, including all data formerly collected by the Annual Federal Report for Occupational Information, except followup data. (Author/AJ)

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ED115879

Misoe Number	Due Date
Name of School System	System ID No.
Name of School	School ID No.
Name of Preparer of Report Title	Telephone No.

Name of Department or Instructional Area

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

FALL DEPARTMENT HEAD REPORT-REPORTING BOOKLET 2.0

to the

DIVISION OF OCCUPATIONAL EDUCATION
(Fiscal Year Ending June 30, 1975)

for

ELECTRONICS PROGRAM

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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CE 005 717

Before filing said statement, the superintendent shall submit it to the chairman of the school committee, who shall countersign it on oath, if, after examination, he finds it correct.
(General Laws Relating to Education 1970: Chapter 72, Sec. 2A, Item 4, and Sec. 3, Item 2)

I hereby certify that all the statements contained in this report are true to the best of my knowledge and belief, and that this is a true statement, made under the penalties of perjury.

CE 005 717

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I hereby certify that all the statements contained in this report are true to the best of my knowledge and belief, and that this is a true statement, made under the penalties of perjury.

(Date)	Superintendent of Schools
(Date)	Chairman of School Committee

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MISOE Number ____________

Table 2.1 Enrollment in Final Grade by Student Group & Terminal Objectives (TERMOB)

1		2	3
1.	Grade		
2.	Student Group Name and Number	101	102
3.	USOE Code(s)		
4.	Level Code		
5.	Type Code		
6.	Session Code		
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No
9.	Workstudy	Yes No	Yes No
10.	Exploratory	Yes No	Yes No
11.	Instructors and Teacher's Aides		
	A. Full Time		
	B. Percentage of Time		
12.	Enrollment	Male Female	Male Female

TERMOB Applicability

13. TERMOB Numbers								

4.	Level Code				
5.	Type Code				
6.	Session Code				
7.	Program Length (Years)	<1 1 2 3 4		<1 1 2 3 4	
8.	Cooperative	Yes No		Yes No	
9.	Workstudy	Yes No		Yes No	
10.	Exploratory	Yes No		Yes No	
11.	Instructors and Teacher's Aides				
	A. Full Time				
	B. Percentage of Time				
12.	Enrollment	Male	Female	Male	Female

TERMOB Applicability

13. TERMOB Numbers								

MIsoe Number ______________________

Table 2.1 (Cont'd) Enrollment In Final Grade by Student Group

	4	5	6
1			
2.	103	104	105
3.			
4.			
5.			
6.			
7.	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
8.	Yes No	Yes No	Yes No
9.	Yes No	Yes No	Yes No
10.	Yes No	Yes No	Yes No
11.			
12.	Male Female	Male Female	Male Female

TERMOB Applicability

13.												

4.			
5.			
6.			
7.	< 1 1 2 3 4	< 1 1 2 3 4	< 1 1 2 3
8.	Yes No	Yes No	Yes No
9.	Yes No	Yes No	Yes No
10.	Yes No	Yes No	Yes No
11.			
12.	Male Female	Male Female	Male Female

TERMOB Applicability

13.												

Misoe Number ______

Table 2.1 Enrollment in Final Grade by Student Group & Terminal Objective (TERMOB)

	7	8	9
1.	Grade		
2.	Student Group Name and Number	106	107
3.	USOE Code(s)		
4.	Level Code		
5.	Type Code		
6.	Session Code		
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No
9.	Workstudy	Yes No	Yes No
10.	Exploratory	Yes No	Yes No
11.	Instructors and Teacher's Aides		
	A. Full Time		
	B. Percentage of Time		
12.	Enrollment	Male Female	Male Female

TERMOB Applicability

13. TERMOB Numbers								

4.	Level Code		
5.	Type Code		
6.	Session Code		
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No
9.	Workstudy	Yes No	Yes No
10.	Exploratory	Yes No	Yes No
11.	Instructors and Teacher's Aides		
	A. Full Time		
	B. Percentage of Time		

12.	Enrollment	Male	Female	Male	Female

TERMOB Applicability

13.	TERMOB Numbers							

Misoe Number ____________

Table 2.1 (Cont'd) Enrollment in Final Grade by Student Group and Terminal Objectives (TERMOBS)

	10	11	12
1.			
2.			
3.	108	109	110
4.			
5.			
6.			
7.	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
8.	Yes No	Yes No	Yes No
9.	Yes No	Yes No	Yes No
10.	Yes No	Yes No	Yes No
11.			
12.	Male Female	Male Female	Male Female

TERMOB Applicability

13.											

4.						
5.						
6.						
7.	<1 1 2	3 4	<1 1 2	3 4	<1 1 2	3 4
8.	Yes	No	Yes	No	Yes	No
9.	Yes	No	Yes	No	Yes	No
10.	Yes	No	Yes	No	Yes	No
11.						
12.	Male	Female	Male	Female	Male	Female

TERMOB Applicability

13.												

MIsoe Number

Table 2.11 Enrollment in Lower Grades by Student Group

	2		3		4		5		6	
	201		202		203		204		205	
	<1 1 2	3 4	<1 1 2	3 4	<1 1 2	3 4	<1 1 2	3 4	<1 1 2	3 4
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
ne										
ne										
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Ferale

Table 2.11 Enrollment in Lower Grades by Student Group

	1	2	3	4	5
1.	Grade				
2.	Student Group Name and Number	201	202	203	204
3.	USOE Code(s)				
4.	LEVEL Code				
5.	Type Code				
6.	Session Code				
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No	Yes No	Yes No
9.	Workstudy	Yes No	Yes No	Yes No	Yes No
10.	Exploratory	Yes No	Yes No	Yes No	Yes No
11.	Instructors and Teacher's Aides				
	A. Full Time				
	B. Percentage of Time				
		Male Female	Male Female	Male Female	Male Female
12.	Enrollment				

Table 2.11 (Cont'[illegible]rollment in Lower Grades by Student Group

	8	9	10	11	12
	206	207	208	209	210
	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
	Yes No	Yes No	Yes No	Yes No	Yes No
	Yes No	Yes No	Yes No	Yes No	Yes No
	Yes No	Yes No	Yes No	Yes No	Yes No
ne					
ne					
	Male Female	Male Female	Male Female	Male Female	Male Female

Misoe Number

Table 2.11 (Cont'd) Enrollment in Lower Grades by Student Group

	7	8	9	10	11
1.	Grade				
2.	Student Group Name and Number	206	207	208	209
3.	USOE Code(s)				
4.	Level Code				
5.	Type Code				
6.	Session Code				
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No	Yes No	Yes No
9.	Workstudy	Yes No	Yes No	Yes No	Yes No
10.	Exploratory	Yes No	Yes No	Yes No	Yes No
11.	Instructors and Teacher's Aides				
	A. Full Time				
	B. Percentage of Time	Male Female	Male Female	Male Female	Male Female
12.	Enrollment				

Misoe Number

Table 2.11 Enrollment in Lower Grades by Student Group (Cont'd)

	14		15		16		17		18	
ne	211		212		213		214		215	
ears)	<1 1 2 3 4		<1 1 2 3 4		<1 1 2 3 4		<1 1 2 3 4		<1 1 2 3 4	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
l Time										
of Time										
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female

Table 2.11 Enrollment in Lower Grades by Student Group (Cont'd)

	13	14	15	16	17
1.	Grade				
2.	Student Group Name and Number	211	212	213	214
3.	USOE Code(s)				
4.	Level Code				
5.	Type Code				
6.	Session Code				
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No	Yes No	Yes No
9.	Workstudy	Yes No	Yes No	Yes No	Yes No
10.	Exploratory	Yes No	Yes No	Yes No	Yes No
11.	Instructors and Teacher's Aides				
	A. Full Time				
	B. Percentage of Time				
		Male Female	Male Female	Male Female	Male Female
12.	Enrollment				

Misoe Number

Table 2.11 Enrollment in Lower Grades by Student Group (Cont'd)

	20		21		22		23		24	
e	216		217		218		219		220	
ears)	<1 1 2 3 4		<1 1 2 3 4		<1 1 2 3 4		<1 1 2 3 4		<1 1 2 3 4	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
l Time										
f Time										
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female

Table 2.11 Enrollment in Lower Grades by Student Group (Cont'd)

	19	20	21	22	23
1.	Grade				
2.	Student Group Name and Number	216	217	218	219
3.	USOE Code(s)				
4.	Level Code				
5.	Type Code				
6.	Session Code				
7.	Program Length (Years)	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4	<1 1 2 3 4
8.	Cooperative	Yes No	Yes No	Yes No	Yes No
9.	Workstudy	Yes No	Yes No	Yes No	Yes No
10.	Exploratory	Yes No	Yes No	Yes No	Yes No
11.	Instructors and Teacher's Aides				
	A. Full Time				
	B. Percentage of Time				
		Male Female	Male Female	Male Female	Male Female
12.	Enrollment				

Table 2.2 Utilization of Student Class Time: Final Grade

MTsoe Number

	2	3	4	5	6	7	8	9	10	11
	101	102	103	104	105	106	107	108	109	110
reas										
lon										

Table 2.2 Utilization of Student Class Time: Final Grade

1		2	3	4	5	6	7	8	9
1.	Student Group Number	101	102	103	104	105	106	107	108
2.	Grade								
3.	USOE Code(s)								
4.	In Occupational Shop/Lab Area(s)								
5.	In Occupational Related Area(s)								
6.	Total Occupational Time (Lines 4 + 5)								
7.	In Nonoccupational Areas								
8.	Total All Areas (Lines 6 + 7)								
9.	Length of Grade Session (weeks)								
10.	Schedule Variation								
11.	Additional Notes Necessary to Explain Lines 4 through 10								

Table 2.2 Utilization of Student Class Time (Cont'd): Final Grade

	13	14	15	16	17	18	19	20	21	22
	111	112	113	114	115	116	117	118	119	120
eas										
on										

Misoe Number

Table 2.2 Utilization of Student Class Time (Cont'd): Final Grade

12	13	14	15	16	17	18	19	20
1. Student Group Number	111	112	113	114	115	116	117	118
2. Grade								
3. USOE COde(s)								
4. In Occupational Shop/Lab Area(s)								
5. In Occupational Related Area(s)								
6. Total Occupational Time (Lines 4+ 5)								
7. In Nonoccupational Areas								
8. Total All Areas (Lines 6 + 7)								
9. Length of Grade Session (weeks)								
10. Schedule Variation								
11. Additional Notes Necessary to Explain Lines 4 through 10								

MIsoe Number

Table 2.21 Utilization of Student Class Time: Lower Grade

	2	3	4	5	6	7	8	9	10	11
	201	202	203	204	205	206	207	208	209	210
eas										
on										

Table 2.21 Utilization of Student Class Time: Lower Grade

1	2	3	4	5	6	7	8	9
1. Student Group Number	201	202	203	204	205	206	207	208
2. Grade								
3. USOE Code(s)								
4. In Occupational Shop/Lab Area(s)								
5. In Occupational Related Area(s)								
6. Total Occupational Time (Lines 4 + 5)								
7. In Nonoccupational Areas								
8. Total All Areas (Lines 6 + 7)								
9. Length of Grade Session (Weeks)								
10. Schedule Variation								
11. Additional Notes Necessary to Explain Lines 4 through 10								

Table 2.21 (Cont'd) Utilization of Student Class Time: Lower Grade

	13	14	15	16	17	18	19	20	21	22
	211	212	213	214	215	216	217	218	219	220
eas										
on										

Misoe Number

Table 2.21 (Cont'd) Utilization of Student Class Time: Lower Grade

	12	13	14	15	16	17	18	19	20
1.	Student Group Number	211	212	213	214	215	216	217	218
2.	Grade								
3.	USOE Code(s)								
4.	In Occupational Shop/Lab Area(s)								
5.	In Occupational Related Area(s)								
6.	Total Occupational Time (Lines 4 + 5)								
7.	In Nonoccupational Areas								
8.	Total All Areas (Lines 6 + 7)								
9.	Length of Grade Session (Weeks)								
10.	Schedule Variation								
11.	Additional Notes Necessary to Explain Lines 4 through 10								

Misoe Number ____________________

Table 2.3 Utilization of Departmental Instructional Area by Rooms

Check Applicable Program Schedule

1. a. ☐ Weekly
   b. ☐ Alternating
   c. ☐ Variable

2. a. ☐ Semester Schedule Change
   b. ☐ No Semester Schedule Change

WEEKLY OR SCHEDULE A

1	2	3		4		5	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
1A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
2A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
3A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
4A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
5A	Mon.						
	Tues.						

[ ] Variable

WEEKLY OR SCHEDULE A

1	2	3		4		5	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
1A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
2A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
3A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
4A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
5A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

____
Misoe Number

Table 2.3 (Cont'd) Utilization of Departmental Instructional Area by Rooms

Check Applicable Program Schedule

1. a. ☐ Weekly
   b. ☐ Alternating
   c. ☐ Variable

2. a. ☐ Semester Schedule Change
   b. ☐ No Semester Schedule Change

WEEKLY OR SCHEDULE B							
5	7	8		9		10	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
1 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
2 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
3 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
4 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
5 B	Mon.						

c. [ ] Variable

WEEKLY OR SCHEDULE B

6	7	8		9		10	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
1 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
2 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
3 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
4 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
5 B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

Misoe Number

Table 2.3 (Cont'd) Utilization of Departmental Instructional Area by Room

Check Applicable Program Schedule

1. a. ☐ Weekly
b. ☐ Alternating
c. ☐ Variable

2. a. ☐ Semester Schedule Change
b. ☐ No Semester Schedule Change

WEEKLY OR SCHEDULE A

11	12	13		14		15	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
6A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
7A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
8A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
9A	Mon						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
	Mon.						

b. [ ] Alternating b. [ ] No Semester Schedule Change
c. [ ] Variable

WEEKLY OR SCHEDULE A

11 Room No. or Name	12 Day of the Week	13 Morning 7:00 a.m.-12:00N		14 Afternoon 12:00N-6:00 p.m.		15 Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
6A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
7A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
8A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
9A	Mon						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
10A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

Misoe Number

Table 2.3 (Cont'd) Utilization of Departmental Instructional Area by Room

Check Applicable Program Schedule

1. a. [ ] Weekly
   b. [ ] Alternating
   c. [ ] Variable

2. a. [ ] Semester Schedule Change
   b. [ ] No Semester Schedule Change

WEEKLY OR SCHEDULE B							
16	17	18		19		20	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
6B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
7B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
8B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
9B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
10B	Mon.						

b. [ ] Alternating
c. [ ] Variable

b. [ ] No Semester Schedule Change

WEEKLY OR SCHEDULE B

16	17	18		19		20	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
6B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
7B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
8B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
9B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
10B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

Misoe Number ____________

Table 2.3 (Cont'd) Utilization of Departmental Instructional Area by Room

Check Applicable Program Schedule

1. a. ☐ Weekly
   b. ☐ Alternating
   c. ☐ Variable

2. a. ☐ Semester Schedule Change
   b. ☐ No Semester Schedule Change

WEEKLY OR SCHEDULE A

21	22	23		24		25	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
11A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
12A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
13A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
14A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
15A	Mon.						
	Tues.						

WEEKLY OR SCHEDULE A

21	22	23		24		25	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
11A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
12A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
13A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
14A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
15A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat						
TOTALS							

Misoe Number

Table 2.3 (Cont'd) Utilization of Departmental Instructional Area by Room

Check Applicable Program Schedule

1. a. [ ] Weekly
   b. [ ] Alternating
   c. [ ] Variable

2. a. [ ] Semester Schedule Change
   b. [ ] No Semester Schedule Change

WEEKLY OR SCHEDULE B

26	27	28		29		30	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
11B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
12B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
13B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
14B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
15B	Mon.						

c. [ ] Variable

WEEKLY OR SCHEDULE B

26	27	28		29		30	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
11B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
12B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
13B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
14B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
15B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

____
Misoe Number

Table 2.3 Utilization of Departmental Instructional Area By Room

Check Applicable Program Schedule

1. a. ☐ Weekly
b. ☐ Alternating
c. ☐ Variable

2. a. ☐ Semester Schedule Change
b. ☐ No Semester Schedule Change

WEEKLY OR SCHEDULE A

31	32	33		34		35	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 P.M.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
16A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
17A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
18A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
19A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						

1. a. [ ] Weekly
b. [ ] Alternating
c. [ ] Variable

2. a. [ ] Semester Schedule Change
b. [ ] No Semester Schedule Change

WEEKLY OR SCHEDULE A

31	32	33		34		35	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 P.M.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
16A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
17A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
18A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
19A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
20A	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

Misoe Number

Table 2.3 (Cont'd) Utilization of Departmenial Instructional Area by Room

Check Applicaboe Program Schedule

1. a. ☐ Weekly
   b. ☐ Alternating
   c. ☐ Variable

2. a. ☐ Semester Schedule Change
   b. ☐ No Semester Schedule Change

WEEKLY OR SCHEDULE B

36	37	38		39		40	
Room No. or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs. Used	No. of Stud. Hrs	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
16B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
17B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
18B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
19B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
20B	Mon.						
	Tues.						
	Wed.						

WEEKLY OR SCHEDULE B

36	37	38		39		40	
Room No.or Name	Day of the Week	Morning 7:00 a.m.-12:00N		Afternoon 12:00N-6:00 p.m.		Evening 6:00 p.m.-11:00 p.m.	
		No. of Hrs.Used	No. of Stud. Hrs	No. of Hrs. Used	No. of Stud. Hrs.	No. of Hrs. Used	No. of Stud. Hrs.
16B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
17B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
18B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
19B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							
20B	Mon.						
	Tues.						
	Wed.						
	Thurs.						
	Fri.						
LS C	Sat.						
TOTALS							

REPORTING TERMINAL PERFORMANCE OBJECTIVES (TERMOBS)

TABLE T-1 - INSTRUCTIONAL DIVISION AND UNIT OUTLINE

ELECTRONICS PROGRAM

DOES THIS OUTLINE CONTAIN ALL OF THE INSTRUCTIONAL CONTENT OF YOUR PROGRAM? YES______ NO______

CODE	DIVISION	CODE	UNIT
01	PASSIVE CIRCUITS-DC	01	INTRODUCTION TO ELECTRICITY
		02	ATOMIC STRUCTURE
		03	STATIC ELECTRICITY
		04	ELECTRICAL TERMS AND UNITS
		05	BATTERIES AND CELLS
		06	SERIES CIRCUITS
		07	PARALLEL CIRCUITS
		08	COMPLEX NETWORK CIRCUITS
		09	OHM'S LAWS
		10	FIRCHOFF'S LAWS
		11	POWER
		12	OVERLOAD PROTECTION
		13	CONDUCTANCE
		14	MAGNETISM
		15	ELECTROMAGNETISM
		16	INDUCTANCE
		17	CAPACITANCE
		18	DC MOTORS
		19	DC GENERATORS
		20	BASIC METER CIRCUITS
		21	TEST EQUIPMENT
02	PASSIVE CIRCUITS-AC	01	AC CURRENT AND VOLTAGE
		02	AC GENERATORS
		03	AC MOTOR
		04	PHASE
		05	REACTANCE
		06	IMPEDANCE
		07	AC POWER
		08	TRANSFORMERS
		09	SERIES AC ANALYSIS
		10	PARALLEL AC ANALYSIS
		11	COMPLEX AC ANALYSIS
		12	RESONANCE
		13	BAND PASS AND BAND REJECT FILERS
		14	TIME CONSTANTS
		15	TEST EQUIPMENT
03	ACTIVE CIRCUITS	01	ACTIVE DEVICES
		02	AMPLIFIERS
		03	OSCILLATORS
		04	DETECTORS
		05	POWER SUPPLIES
		06	PULSE CIRCUITS
		07	INTEGRATED CIRCUITS
		08	TRANSDUCERS
		09	TEST EQUIPMENT
04	ELECTRONIC SYSTEMS	01	RECEIVERS
		02	TRANSMITTERS
		03	PHONOGRAPHS
		04	TAPE RECORDERS

		02	ATOMIC STRUCTURE
		03	STATIC ELECTRICITY
		04	ELECTRICAL TERMS AND UNITS
		05	BATTERIES AND CELLS
		06	SERIES CIRCUITS
		07	PARALLEL CIRCUITS
		08	COMPLEX NETWORK CIRCUITS
		09	OHM'S LAWS
		10	FIRCHOFF'S LAWS
		11	POWER
		12	OVERLOAD PROTECTION
		13	CONDUCTANCE
		14	MAGNETISM
		15	ELECTROMAGNETISM
		16	INDUCTANCE
		17	CAPACITANCE
		18	DC MOTORS
		19	DC GENERATORS
		20	BASIC METER CIRCUITS
		21	TEST EQUIPMENT
02	PASSIVE CIRCUITS-AC	01	AC CURRENT AND VOLTAGE
		02	AC GENERATORS
		03	AC MOTOR
		04	PHASE
		05	REACTANCE
		06	IMPEDANCE
		07	AC POWER
		08	TRANSFORMERS
		09	SERIES AC ANALYSIS
		10	PARALLEL AC ANALYSIS
		11	COMPLEX AC ANALYSIS
		12	RESONANCE
		13	BAND PASS AND BAND REJECT FILERS
		14	TIME CONSTANTS
		15	TEST EQUIPMENT
03	ACTIVE CIRCUITS	01	ACTIVE DEVICES
		02	AMPLIFIERS
		03	OSCILLATORS
		04	DETECTORS
		05	POWER SUPPLIES
		06	PULSE CIRCUITS
		07	INTEGRATED CIRCUITS
		08	TRANSDUCERS
		09	TEST EQUIPMENT
04	ELECTRONIC SYSTEMS	01	RECEIVERS
		02	TRANSMITTERS
		03	PHONOGRAPHS
		04	TAPE RECORDERS
		05	TELEVISION
		06	WAVE PROPAGATION
		07	MICROWAVES
		08	INDUCTION HEATING
		09	ULTRASONICS
		10	COMPUTER TECHNOLOGY
		11	CONTROL CIRCUITS
		12	ANTENNA SYSTEM

TABLE T-1 (CONT.) - INSTRUCTIONAL DIVISION AND UNIT OUTLINE

ELECTRONICS PROGRAM

CODE	DIVISION	CODE	UNIT
04	ELECTRONIC SYSTEMS (CONT.)	13	RADAR
		14	SONAR
		15	RADIO DIRECTION FINDER
		16	LORAN
		17	TEST EQUIPMENT
		18	MODULATION
		19	COMMUNICATION SYSTEM
05	SHOP PRACTICES	01	SOLDERING
		02	TOOLS
		03	MACHINES
		04	PRINTED CIRCUITS
		05	WIRING
		06	CABLING
		07	ELECTRONIC EQUIPMENT FABRICATION
		08	SPLICING
		09	DEPARTMENTAL OPERATION
		10	CHASSIS
		11	PREVENTIVE MAINTENANCE
		12	BASIC TROUBLESHOOTING TECHNIQUES
		13	ELECTRONIC DRAFTING

TABLE T-2 - TERMOB DIVISION AND UNIT OUTLINE

ELECTRONICS PROGRAM

DOES THIS OUTLINE CONTAIN ALL TOPICS IN WHICH GRADUATES ACQUIRE JOB-ENTRY SKILLS? YES______ NO______

CODE	DIVISION	CODE	UNIT
01	CIRCUIT CONSTRUCTION	01	CABLES
		02	CHASSIS WIRING AND ASSEMBLY
		03	PRINTED CIRCUIT BOARDS
		04	WIREWRAP
		05	WAVE GUIDE
02	CIRCUIT DESIGN	01	RECTIFIERS
		02	AMPLIFIERS
		03	OSCILLATORS
		04	SPECIAL CIRCUITS AND DEVICES
		05	DIGITAL CIRCUITS
03	CIRCUIT CALIBRATION	01	METERS
		02	POWER SUPPLIES
		03	OSCILLOSCOPES
		04	OSCILLATORS AND FUNCTION GENERATORS
		05	SPECIAL INSTRUMENTATION
04	CIRCUIT TESTING	01	AMPLIFIERS
		02	RECTIFIERS
		03	OSCILLATORS
		04	SPECIAL CIRCUITS AND DEVICES
		05	DIGITAL CIRCUITS
05	CIRCUIT DIAGNOSIS	01	SUB ASSEMBLIES
		02	ASSEMBLY

TERMINAL PERFORMANCE OBJECTIVES (TERMOBS)

and

REPORTING FORMS

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 01 CABLES

TERMOB NO. 13-001

1.00 CONDITION

( ) 1.01 CABLE HARNESS LAYOUT PRINT
( ) 1.02 APPROPRIATE GAUGE WIRE
( ) 1.03 TERMINALS
( ) 1.04 JACKS AND CONNECTORS
( ) 1.05 TIE WRAPS
( ) 1.06 LACING
( ) 1.07 SLEEVING
( ) 1.08 NUMBERING TABS
( ) 1.09 CABLE BOARD
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.12 HIGH VOLTAGE POWER SUPPLY

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A CABLE HARNESS CONSISTING OF 100 WIRES WITH 3 BREAKOUTS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS FOR THE JOB
( ) 2.03 ASSEMBLE WIRES
( ) 2.04 LACE, WRAP AND SECURE CABLE
( ) 2.05 STRIP WIRES AND MAKE CONNECTIONS TO TERMINALS, JACKS AND CONNECTORS
( ) 2.06 CHECK CONTINUITY
( ) 2.07 HI-POT CABLE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CABLE HARNESS CONSTRUCTED WITH NO SHORTS OR VOLTAGE LEAKS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE THE SIMPLEST ASSEMBLY IN THE MOST ECONOMICAL WAY
( ) 3.03 USING ACCEPTED HARNESSING TECHNIQUES. ALL WIRES COLOR CODED AND LABELED
( ) 3.04 USING ACCEPTED HARNESSING TECHNIQUES
( ) 3.05 ALL SOLDERING DONE PROPERLY. HEAT SINKS SHALL BE USED WHERE NECESSARY. HARDWARE (PLUGS, TERMINALS, JACKS AND CONNECTORS) SHALL BE SECURE
( ) 3.06 100% CONTINUITY

( ) 1.02 APPROPRIATE GAUGE WIRE
( ) 1.03 TERMINALS
( ) 1.04 JACKS AND CONNECTORS
( ) 1.05 TIE WRAPS
( ) 1.06 LACING
( ) 1.07 SLEEVING
( ) 1.08 NUMBERING TABS
( ) 1.09 CABLE BOARD
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.12 HIGH VOLTAGE POWER SUPPLY

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT A CABLE HARNESS CONSISTING OF 100 WIRES WITH 3 BREAKOUTS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS FOR THE JOB
( ) 2.03 ASSEMBLE WIRES
( ) 2.04 LACE, WRAP AND SECURE CABLE
( ) 2.05 STRIP WIRES AND MAKE CONNECTIONS TO TERMINALS, JACKS AND CONNECTORS
( ) 2.06 CHECK CONTINUITY
( ) 2.07 HI-POT CABLE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CABLE HARNESS CONSTRUCTED WITH NO SHORTS OR VOLTAGE LEAKS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE THE SIMPLEST ASSEMBLY IN THE MOST ECONOMICAL WAY
( ) 3.03 USING ACCEPTED HARNESSING TECHNIQUES. ALL WIRES COLOR CODED AND LABELED
( ) 3.04 USING ACCEPTED HARNESSING TECHNIQUES
( ) 3.05 ALL SOLDERING DONE PROPERLY. HEAT SINKS SHALL BE USED WHERE NECESSARY. HARDWARE (PLUGS, TERMINALS, JACKS AND CONNECTORS) SHALL BE SECURE
( ) 3.06 100% CONTINUITY
( ) 3.07 NO VOLTAGE LEAKAGE DUE TO DEFECTIVE MATERIALS OR WORKMANSHIP

MISOE NO. ________________

PROGRAM	ELECTRONICS	DIVISION 01	CIRCUIT CONSTRUCTION
USOE CODE NO(S)		UNIT 01	CABLES.
		TERMOB NO.	13-001

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 01 CABLES

TERMOB NO. 13-002

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A COAX CABLE
( ) 1.02 COAX CABLES
( ) 1.03 COAX CONNECTORS
( ) 1.04 ASSOCIATED HARDWARE AS NEEDED
( ) 1.05 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT A COAX CABLE WITH CONNECTORS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS FOR THE JOB
( ) 2.03 STRIP CABLE AND SECURE
( ) 2.04 CHECK FOR SHORTS AND CONTINUITY

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 COAX CABLE CONSTRUCTED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 4 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL SOLDERING DONE PROPERLY
( ) 3.04 NO SHORTS. 100% CONTINUITY

MISOE NO. ______

PROGRAM	ELECTRONICS	DIVISION 01	CIRCUIT CONSTRUCTION
USOE CODE NO(S)		UNIT 01	CABLES
		TERMOB NO.	13-002

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS
DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 01 CABLES
TERMOB NO. 13-003

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF AN EXTERNAL CONNECTOR CABLE
( ) 1.02 WIRE OF APPROPRIATE TYPE AND GAUGE
( ) 1.03 CONNECTORS
( ) 1.04 TIE WRAPS
( ) 1.05 SLEEVING
( ) 1.06 ASSOCIATED HARDWARE AS NEEDED
( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT AN EXTERNAL CABLE WITH TWO CONNECTORS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS FOR THE JOB
( ) 2.03 STRIP WIRE AND SECURE TO CONNECTORS
( ) 2.04 CHECK FOR SHORTS AND CONTINUITY

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 EXTERNAL CONNECTOR CABLE CONSTRUCTED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL SOLDERING DONE PROPERLY
( ) 3.04 NO SHORTS. 100% CONTINUITY

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

USOE CODE NO(S) ____________

UNIT 01 CABLES

TERMOB NO. 13-003

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 02 CHASSIS WIRING & ASSEMBLY

TERMOB NO. 13-004

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A FULL WAVE RECTIFIER CIRCUIT
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 INDUCTORS
( ) 1.05 VACUUM TUBES
( ) 1.06 TRANSFORMERS
( ) 1.07 TOGGLE SWITCH
( ) 1.08 FUSE AND FUSE HOLDER
( ) 1.09 CONNECTORS AND TEST JACKS
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT A FULL WAVE RECTIFIER ON A CHASSIS USING POINT TO POINT WIRING TECHNIQUES EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CHASSIS FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED/PUNCHED TO PROPER SIZE
( ) 3.04 ENSURING SAFE AND RELIABLE OPERATION. ALL SOLDERING SHALL BE DONE USING ACCEPTED TECHNIQUES. HEAT SINKS SHALL BE USED TO PROTECT HEAT SENSITIVE COMPONENTS. HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE/COMPONENT FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE, FREQUENCY AND OUTPUT CHARACTERISTICS

( ) 1.01 SCHEMATIC DIAGRAM OF A FULL WAVE RECTIFIER CIRCUIT
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 INDUCTORS
( ) 1.05 VACUUM TUBES
( ) 1.06 TRANSFORMERS
( ) 1.07 TOGGLE SWITCH
( ) 1.08 FUSE AND FUSE HOLDER
( ) 1.09 CONNECTORS AND TEST JACKS
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A FULL WAVE RECTIFIER ON A CHASSIS USING POINT TO POINT WIRING TECHNIQUES EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CHASSIS FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED/PUNCHED TO PROPER SIZE
( ) 3.04 ENSURING SAFE AND RELIABLE OPERATION. ALL SOLDERING SHALL BE DONE USING ACCEPTED TECHNIQUES. HEAT SINKS SHALL BE USED TO PROTECT HEAT SENSITIVE COMPONENTS. HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE/COMPONENT FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE, FREQUENCY AND OUTPUT CHARACTERISTICS
( ) 3.07 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ____________

PROGRAM ELECTRONICS
USOE CODE NO(S) ____________

DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 02 CHASSIS WIRING & ASSEMBLY
TERMOB NO. 13-004

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 02 CHASSIS WIRING & ASSEMBLY

TERMOB NO. 13-005

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A VOLTAGE AMPLIFIER
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 INDUCTORS
( ) 1.05 VACUUM TUBES
( ) 1.06 TRANSISTORS
( ) 1.07 AUDIO OSCILLATOR
( ) 1.08 TRANSFORMERS
( ) 1.09 SPEAKER
( ) 1.10 POWER SUPPLY
( ) 1.11 CHASSIS
( ) 1.12 ASSOCIATED HARDWARE AS NEEDED
( ) 1.13 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A VOLTAGE AMPLIFIER INTO A CHASSIS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS FOR THE JOB
( ) 2.03 PREPARE CHASSIS FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT PRODUCES AN OUTPUT THAT IS STABLE, AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED/PUNCHED TO PROPER SIZE
( ) 3.04 USING POINT TO POINT WIRING TECHNIQUES ENSURING SAFE AND RELIABLE OPERATION. ALL SOLDERING SHALL BE DONE USING ACCEPTED TECHNIQUES. HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE, FREQUENCY AND CURRENT

( ) 1.01 SCHEMATIC DIAGRAM OF A VOLTAGE AMPLIFIER
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 INDUCTORS
( ) 1.05 VACUUM TUBES
( ) 1.06 TRANSISTORS
( ) 1.07 AUDIO OSCILLATOR
( ) 1.08 TRANSFORMERS
( ) 1.09 SPEAKER
( ) 1.10 POWER SUPPLY
( ) 1.11 CHASSIS
( ) 1.12 ASSOCIATED HARDWARE AS NEEDED
( ) 1.13 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A VOLTAGE AMPLIFIER INTO A CHASSIS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS FOR THE JOB
( ) 2.03 PREPARE CHASSIS FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT PRODUCES AN OUTPUT THAT IS STABLE, AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH STEP OF THE PROCEDURE JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED/PUNCHED TO PROPER SIZE
( ) 3.04 USING POINT TO POINT WIRING TECHNIQUES ENSURING SAFE AND RELIABLE OPERATION. ALL SOLDERING SHALL BE DONE USING ACCEPTED TECHNIQUES. HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE, FREQUENCY AND CURRENT
( ) 3.07 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ______

PROGRAM	ELECTRONICS	DIVISION	01	CIRCUIT CONSTRUCTION
USOE CODE NO(S)		UNIT	02	CHASSIS WIRING & ASSEMBLY
		TERMOB NO.		13-005

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 02 CHASSIS WIRING & ASSEMBLY
TERMOB NO. 13-006

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A PHASE SHIFT OSCILLATOR
( ) 1.02 SCHEMATIC DIAGRAM OF A MULTIVIBRATOR OSCILLATOR
( ) 1.03 SCHEMATIC DIAGRAM OF A WEIN BRIDGE OSCILLATOR
( ) 1.04 SCHEMATIC DIAGRAM OF A CRYSTAL OSCILLATOR
( ) 1.05 SCHEMATIC DIAGRAM OF A RELAXATION OSCILLATOR
( ) 1.06 SCHEMATIC DIAGRAM OF A COLPITTS OSCILLATOR
( ) 1.07 SCHEMATIC DIAGRAM OF A SPECIALTY CIRCUIT OSCILLATOR
( ) 1.08 REACTORS
( ) 1.09 CAPACITORS
( ) 1.10 INDUCTORS
( ) 1.11 VACUUM TUBES
( ) 1.12 TRANSISTORS
( ) 1.13 POWER SUPPLY
( ) 1.14 CHASSIS
( ) 1.15 ASSOCIATED HARDWARE AS NEEDED
( ) 1.16 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT AN OSCILLATOR CIRCUIT INTO A CHASSIS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CHASSIS FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT PRODUCED AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED/PUNCHED TO PROPER SIZE
( ) 3.04 USING POINT-TO-POINT WIRING TECHNIQUES ENSURING SAFE AND RELIABLE OPERATION. ALL SOLDERING SHALL BE DONE USING ACCEPTED TECHNIQUES. HARDWARE SHALL BE SECURE

( ) 1.01 SCHEMATIC DIAGRAM OF A PHASE SHIFT OSCILLATOR
( ) 1.02 SCHEMATIC DIAGRAM OF A MULTIVIBRATOR OSCILLATOR
( ) 1.03 SCHEMATIC DIAGRAM OF A WEIN BRIDGE OSCILLATOR
( ) 1.04 SCHEMATIC DIAGRAM OF A CRYSTAL OSCILLATOR
( ) 1.05 SCHEMATIC DIAGRAM OF A RELAXATION OSCILLATOR
( ) 1.06 SCHEMATIC DIAGRAM OF A COLPITTS OSCILLATOR
( ) 1.07 SCHEMATIC DIAGRAM OF A SPECIALTY CIRCUIT OSCILLATOR
( ) 1.08 REACTORS
( ) 1.09 CAPACITORS
( ) 1.10 INDUCTORS
( ) 1.11 VACUUM TUBES
( ) 1.12 TRANSISTORS
( ) 1.13 POWER SUPPLY
( ) 1.14 CHASSIS
( ) 1.15 ASSOCIATED HARDWARE AS NEEDED
( ) 1.16 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT AN OSCILLATOR CIRCUIT INTO A CHASSIS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CHASSIS FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT PRODUCED AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED/PUNCHED TO PROPER SIZE
( ) 3.04 USING POINT-TO-POINT WIRING TECHNIQUES ENSURING SAFE AND RELIABLE OPERATION. ALL SOLDERING SHALL BE DONE USING ACCEPTED TECHNIQUES. HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE, FREQUENCY AND CURRENT
( ) 3.07 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ________________

PROGRAM ELECTRONICS

USOE CODE NO(S) ________________

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 02 CHASSIS WIRING & ASSEMBLY

TERMOB NO. 13-006

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 03 PRINTED CIRCUIT BOARD
TERMOB NO. 13-007

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A FULL WAVE RECTIFIER CIRCUIT
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 INDUCTORS
( ) 1.05 DIODES
( ) 1.06 TRANSFORMERS
( ) 1.07 COPPER CLAD EPOXY OR PHENOLIC BOARD
( ) 1.08 CHASSIS
( ) 1.09 POWER SUPPLY
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A SOLID STATE RECTIFIER CIRCUIT INTO A CHASSIS USING PRINTED CIRCUIT BOARD TECHNIQUES EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 SECURE CIRCUIT BOARD TO CHASSIS
( ) 2.06 LOAD CIRCUIT
( ) 2.07 ENERGIZE CIRCUIT
( ) 2.08 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 10 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES
( ) 3.04 SOLDER CONNECTIONS SHALL BE STRONG AND NEAT. ALL HARDWARE SHALL BE SECURE
( ) 3.05 SECURELY
( ) 3.06 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.07 WITH AN INPUT OF PROPER AMPLITUDE AND FREQUENCY
( ) 3.08 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 03 PRINTED CIRCUIT BOARD

TERMOB NO. 13-007

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 03 PRINTED CIRCUIT BOARD
TERMOB NO. 13-008

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A SOLID STATE VOLTAGE AMPLIFIER
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 TRANSISTORS
( ) 1.05 AUDIO OSCILLATOR
( ) 1.06 SPEAKER
( ) 1.07 POWER SUPPLY
( ) 1.08 COPPER CLAD EPOXY OR PHENOLIC BOARD
( ) 1.09 CHASSIS
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT A SOLID STATE VOLTAGE AMPLIFIER INTO A CHASSIS USING PRINTED CIRCUIT BOARD TECHNIQUES EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 SECURE CIRCUIT BOARD TO CHASSIS
( ) 2.06 LOAD CIRCUIT
( ) 2.07 ENERGIZE CIRCUIT
( ) 2.08 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES
( ) 3.04 SOLDER CONNECTIONS SHALL BE STRONG AND NEAT. ALL HARDWARE SHALL BE SECURE
( ) 3.05 SECURELY
( ) 3.06 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.07 WITH AN INPUT OF APPROPRIATE AMPLITUDE AND FREQUENCY

( ) 1.01 SCHEMATIC DIAGRAM OF A SOLID STATE VOLTAGE AMPLIFIER
( ) 1.02 RESISTORS
( ) 1.03 CAPACITORS
( ) 1.04 TRANSISTORS
( ) 1.05 AUDIO OSCILLATOR
( ) 1.06 SPEAKER
( ) 1.07 POWER SUPPLY
( ) 1.08 COPPER CLAD EPOXY OR PHENOLIC BOARD
( ) 1.09 CHASSIS
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT A SOLID STATE VOLTAGE AMPLIFIER INTO A CHASSIS USING PRINTED CIRCUIT BOARD TECHNIQUES EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 SECURE CIRCUIT BOARD TO CHASSIS
( ) 2.06 LOAD CIRCUIT
( ) 2.07 ENERGIZE CIRCUIT
( ) 2.08 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES
( ) 3.04 SOLDER CONNECTIONS SHALL BE STRONG AND NEAT. ALL HARDWARE SHALL BE SECURE
( ) 3.05 SECURELY
( ) 3.06 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.07 WITH AN INPUT OF APPROPRIATE AMPLITUDE AND FREQUENCY
( ) 3.08 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ______________

PROGRAM	ELECTRONICS	DIVISION 01	CIRCUIT CONSTRUCTION
USOE CODE NO(S)		UNIT 03	PRINTED CIRCUIT BOARD
		TERMOB NO.	13-008

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 03 PRINTED CIRCUIT BOARD
TERMOB NO. 13-009

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF A TUNED HARTLEY OSCILLATOR
( ) 1.02 SCHEMATIC DIAGRAM OF A PHASE SHIFT OSCILLATOR
( ) 1.03 SCHEMATIC DIAGRAM OF A MULTIVIBRATOR OSCILLATOR
( ) 1.04 SCHEMATIC DIAGRAM OF A WEINBRIDGE OSCILLATOR
( ) 1.05 SCHEMATIC DIAGRAM OF A CRYSTAL OSCILLATOR
( ) 1.06 SCHEMATIC DIAGRAM OF A RELAXATION OSCILLATOR
( ) 1.07 SCHEMATIC DIAGRAM OF A COLPITTS OSCILLATOR
( ) 1.08 RESISTORS
( ) 1.09 CAPACITORS
( ) 1.10 INDUCTORS
( ) 1.11 TRANSISTORS
( ) 1.12 POWER SUPPLY
( ) 1.13 COPPER CLAD EPOXY OR PHENOLIC BOARD
( ) 1.14 CHASSIS
( ) 1.15 ASSOCIATED HARDWARE AS NEEDED
( ) 1.16 BASIC ELECTRONICS TOOLS AND TEST EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT AN OSCILLATOR CIRCUIT INTO A CHASSIS USING PRINTED CIRCUIT BOARD TECHNIQUES EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 SECURE CIRCUIT BOARD TO CHASSIS
( ) 2.06 LOAD CIRCUIT
( ) 2.07 ENERGIZE CIRCUIT
( ) 2.08 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES

( ) 1.01 SCHEMATIC DIAGRAM OF A TUNED HARTLEY OSCILLATOR
( ) 1.02 SCHEMATIC DIAGRAM OF A PHASE SHIFT OSCILLATOR
( ) 1.03 SCHEMATIC DIAGRAM OF A MULTIVIBRATOR OSCILLATOR
( ) 1.04 SCHEMATIC DIAGRAM OF A WEINBRIDGE OSCILLATOR
( ) 1.05 SCHEMATIC DIAGRAM OF A CRYSTAL OSCILLATOR
( ) 1.06 SCHEMATIC DIAGRAM OF A RELAXATION OSCILLATOR
( ) 1.07 SCHEMATIC DIAGRAM OF A COLPITTS OSCILLATOR
( ) 1.08 RESISTORS
( ) 1.09 CAPACITORS
( ) 1.10 INDUCTORS
( ) 1.11 TRANSISTORS
( ) 1.12 POWER SUPPLY
( ) 1.13 COPPER CLAD EPOXY OR PHENOLIC BOARD
( ) 1.14 CHASSIS
( ) 1.15 ASSOCIATED HARDWARE AS NEEDED
( ) 1.16 BASIC ELECTRONICS TOOLS AND TEST EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT AN OSCILLATOR CIRCUIT INTO A CHASSIS USING PRINTED CIRCUIT BOARD TECHNIQUES EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 SECURE CIRCUIT BOARD TO CHASSIS
( ) 2.06 LOAD CIRCUIT
( ) 2.07 ENERGIZE CIRCUIT
( ) 2.08 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES
( ) 3.04 SOLDER CONNECTIONS SHALL BE STRONG AND NEAT. ALL HARDWARE SHALL BE SECURE
( ) 3.05 SECURELY
( ) 3.06 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.07 WITH AN INPUT OF APPROPRIATE AMPLITUDE
( ) 3.08 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 03 PRINTED CIRCUIT BOARD

TERMOB NO. 13-009

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 03 PRINTED CIRCUIT BOARD

TERMOB NO. 13-010

1.00 CONDITION

( ) 1.01 LOGIC DIAGRAM WITH IN-LINE INTEGRATED CIRCUITS
( ) 1.02 COPPER CLAD BOARD
( ) 1.03 RESISTORS
( ) 1.04 CAPACITORS
( ) 1.05 IC'S
( ) 1.06 DISPLAY LAMPS
( ) 1.07 LED'S
( ) 1.08 TIMING DIAGRAM
( ) 1.09 POWER SUPPLY
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT A DIGITAL LOGIC CIRCUIT ON A PRINTED CIRCUIT BOARD EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 15 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES
( ) 3.04 SOLDER CONNECTIONS SHALL BE STRONG AND NEAT. ALL HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE AND CURRENT CHARACTERISTICS
( ) 3.07 REQUIRED VALUES DISPLAYED ON APPROPRIATE EQUIPMENT IN CONFORMANCE WITH TIMING DIAGRAM.

( ) 1.01 LOGIC DIAGRAM WITH IN-LINE INTEGRATED CIRCUITS
( ) 1.02 COPPER CLAD BOARD
( ) 1.03 RESISTORS
( ) 1.04 CAPACITORS
( ) 1.05 IC'S
( ) 1.06 DISPLAY LAMPS
( ) 1.07 LED'S
( ) 1.08 TIMING DIAGRAM
( ) 1.09 POWER SUPPLY
( ) 1.10 ASSOCIATED HARDWARE AS NEEDED
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A DIGITAL LOGIC CIRCUIT ON A PRINTED CIRCUIT BOARD EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 PREPARE CIRCUIT BOARD FOR COMPONENT INSTALLATION
( ) 2.04 ASSEMBLE CIRCUIT
( ) 2.05 LOAD CIRCUIT
( ) 2.06 ENERGIZE CIRCUIT
( ) 2.07 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 15 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE A RUGGED, RELIABLE AND SAFE ASSEMBLY
( ) 3.03 ALL HOLES DRILLED TO PROPER SIZE. BOARD ETCHED TO PROVIDE SIMPLEST NETWORK USING ACCEPTED TECHNIQUES
( ) 3.04 SOLDER CONNECTIONS SHALL BE STRONG AND NEAT. ALL HARDWARE SHALL BE SECURE
( ) 3.05 WITH AN APPROPRIATE DEVICE FOR PROPER OPERATION
( ) 3.06 WITH AN INPUT OF PROPER AMPLITUDE AND CURRENT CHARACTERISTICS
( ) 3.07 REQUIRED VALUES DISPLAYED ON APPROPRIATE EQUIPMENT IN CONFORMANCE WITH TIMING DIAGRAM.

MISOE NO. ____________

PROGRAM ELECTRONICS
USOE CODE NO(S) ____________

DIVISION 01 CIRCUIT CONSTRUCTION
UNIT 03 PRINTED CIRCUIT BOARD
TERMOB NO. 13-010

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 04 WIRE WRAP

TERMOB NO. 13-011

1.00 CONDITION

( ) 1.01 DIGITAL LOGIC DIAGRAM WITH IN-LINE INTEGRATED CIRCUITS
( ) 1.02 WIREWRAP SOCKETS
( ) 1.03 WIREWRAP BOARD
( ) 1.04 WIREWRAP GUN
( ) 1.05 SLEEVES AND BITS FOR WIREWRAPPING
( ) 1.06 IC'S
( ) 1.07 POWER SUPPLY
( ) 1.08 TIMING DIAGRAM
( ) 1.09 ASSOCIATED HARDWARE AS NEEDED
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A DIGITAL LOGIC CIRCUIT ON A WIREWRAP BOARD EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 ASSEMBLE AND WIREWRAP BOARD
( ) 2.04 INSTALL IC'S
( ) 2.05 ENERGIZE CIRCUIT
( ) 2.06 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 12 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE THE PROPER TIMING OUTPUTS
( ) 3.03 ENSURING SAFE AND RELIABLE OPERATION
( ) 3.04 NEATLY. FREE OF ANY LOOSE WRAPS
( ) 3.05 WITH AN INPUT OF PROPER POLARITY AND OUTPUT CHARACTERISTICS
( ) 3.06 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 04 WIRE WRAP

TERMOB NO. 13-011

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 04 WIREWRAP

TERMOB NO. 13-012

1.00 CONDITION

( ) 1.01 SCHEMATIC DIAGRAM OF AN ANALOG IC CIRCUIT
( ) 1.02 WIREWRAP SOCKETS
( ) 1.03 WIREWRAP BOARD
( ) 1.04 WIREWRAP GUN
( ) 1.05 SLEEVES AND BITS FOR WIREWRAPPING
( ) 1.06 IC'S
( ) 1.07 POWER SUPPLY
( ) 1.08 ASSOCIATED HARDWARE AS NEEDED
( ) 1.09 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CONSTRUCT AN ANALOG CIRCUIT ON A WIREWRAP BOARD EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER MATERIALS AND COMPONENTS
( ) 2.03 ASSEMBLE AND WIREWRAP BOARD
( ) 2.04 INSTALL IC'S
( ) 2.05 ENERGIZE CIRCUIT
( ) 2.06 DEMONSTRATE PROPER OPERATION OF THE CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT IS SOUND AND PRODUCES AN OUTPUT THAT IS STABLE AND OF AN EXPECTED NATURE TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 12 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE THE SIMPLEST CIRCUIT IN THE MOST ECONOMICAL WAY
( ) 3.03 NEATLY ENSURING SAFE AND RELIABLE OPERATION
( ) 3.04 NEATLY. FREE OF ANY LOOSE WRAPS
( ) 3.05 WITH AN INPUT OF PROPER POLARITY AMPLITUDE AND OUTPUT CHARACTERISTICS
( ) 3.06 REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ________________

PROGRAM ELECTRONICS

USOE CODE NO(S) ________________

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 04 WIREWRAP

TERMOB NO. 13-012

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 05 WAVEGUIDE

TERMOB NO. 13-013

1.00 CONDITION

( ) 1.01 DIAGRAM OF MICROWAVE OSCILLATOR SYSTEM
( ) 1.02 DIAGRAM OF MICROWAVE TRANSMITTER SYSTEM
( ) 1.03 DIAGRAM OF RADAR TRANSMITTER SYSTEM
( ) 1.04 DIAGRAM OF HIGH FREQUENCY SPECTRUM ANALYZER
( ) 1.05 KLYSTRON TUBE
( ) 1.06 WAVEGUIDE DIODE PROBE AND HOLDER
( ) 1.07 X BAND CONVERTER
( ) 1.08 DISCRIMINATOR
( ) 1.09 AMPLIFIER
( ) 1.10 BARRETTER
( ) 1.11 POWER BRIDGE
( ) 1.12 POWER SUPPLIES
( ) 1.13 SLOTTED LINE
( ) 1.14 WAVEGUIDE TO COAX ADAPTER
( ) 1.15 FREQUENCY METER
( ) 1.16 BALOMETER
( ) 1.17 POWER METER
( ) 1.18 COUPLERS
( ) 1.19 ASSOCIATED HARDWARE AS NEEDED
( ) 1.20 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A MICROWAVE WAVEGUIDE CHASSIS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER COMPONENTS
( ) 2.03 ASSEMBLE WAVEGUIDE CIRCUIT
( ) 2.04 ENERGIZE CIRCUIT
( ) 2.05 DEMONSTRATE PROPER OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT PRODUCES AN OUTPUT THAT IS EXPECTED TO APPROVAL OF BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE THE SIMPLEST CIRCUIT IN THE MOST ECONOMICAL WAY
( ) 3.03 TO ENSURE SAFETY AND RELIABLE OPERATION
( ) 3.04 WITH PROPER INPUT

( ) 1.01 DIAGRAM OF MICROWAVE OSCILLATOR SYSTEM
( ) 1.02 DIAGRAM OF MICROWAVE TRANSMITTER SYSTEM
( ) 1.03 DIAGRAM OF RADAR TRANSMITTER SYSTEM
( ) 1.04 DIAGRAM OF HIGH FREQUENCY SPECTRUM ANALYZER
( ) 1.05 KLYSTRON TUBE
( ) 1.06 WAVEGUIDE DIODE PROBE AND HOLDER
( ) 1.07 X BAND CONVERTER
( ) 1.08 DISCRIMINATOR
( ) 1.09 [illegible]R
( ) 1.10 BARRETTER
( ) 1.11 POWER BRIDGE
( ) 1.12 POWER SUPPLIES
( ) 1.13 SLOTTED LINE
( ) 1.14 WAVEGUIDE TO COAX ADAPTER
( ) 1.15 FREQUENCY METER
( ) 1.16 BALOMETER
( ) 1.17 POWER METER
( ) 1.18 COUPLERS
( ) 1.19 ASSOCIATED HARDWARE AS NEEDED
( ) 1.20 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CONSTRUCT A MICROWAVE WAVEGUIDE CHASSIS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER COMPONENTS
( ) 2.03 ASSEMBLE WAVEGUIDE CIRCUIT
( ) 2.04 ENERGIZE CIRCUIT
( ) 2.05 DEMONSTRATE PROPER OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 CIRCUIT PRODUCES AN OUTPUT THAT IS EXPECTED TO APPROVAL OF BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 TO PRODUCE THE SIMPLEST CIRCUIT IN THE MOST ECONOMICAL WAY
( ) 3.03 TO ENSURE SAFETY AND RELIABLE OPERATION
( ) 3.04 WITH PROPER INPUT
( ) 3.05 WITH REQUIRED VALUES DISPLAYED ON APPROPRIATE TEST EQUIPMENT

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 01 CIRCUIT CONSTRUCTION

UNIT 05 WAVEGUIDE

TERMOB NO. 13-013

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

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3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS
DIVISION 02 CIRCUIT DESIGN
UNIT 01 RECTIFIERS
TERMOB NO. 13-014

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TUBE, DIODE MANUAL

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A FILTERED, HALF-WAVE RECTIFIER WITH VOLTAGE DIVIDER HAVING THE FOLLOWING SPECIFICATIONS:

INPUT	120 VAC
OUTPUT	8VDC 200 MA and 5VDC 100 MA
REGULATION	10%
RIPPLE	1.0%

AND EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

USOE CODE NO(S) ____________

UNIT 01 RECTIFIERS

TERMOB NO. 13-014

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 01 RECTIFIERS

TERMOB NO. 13-015

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TUBE, DIODE MANUAL

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A FULL-WAVE RECTIFIER WITH CAPACITOR INPUT FILTER AND RESISTIVE LOAD HAVING THE FOLLOWING SPECIFICATIONS

INPUT	120 VAC
OUTPUT	10 VAC 500 MA
REGULATION	10%
RIPPLE	1.0%

AND EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES PROPERLY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED TECHNIQUES FOR SCHEMATICS

MISOE NO. ______________

PROGRAM ELECTRONICS

USOE CODE NO(S) ______________

DIVISION 02 CIRCUIT DESIGN

UNIT 01 RECTIFIERS

TERMOB NO. 13-015

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 02 AMPLIFIERS

TERMOB NO. 13-016

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TRANSISTOR MANUAL

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A SINGLE-STAGE COMMON EMITTER VOLTAGE AMPLIFIER WITH BIAS STABILIZATION HAVING THE FOLLOWING SPECIFICATIONS:

INPUTS	9VDC, 40 MVAC (P-P)
OUTPUT	4VAC (P-P)
GAIN	100 (MIN)
FREQUENCY RESPONSE	10HZ - 10KHZ ±3DB

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. __________

PROGRAM	ELECTRONICS	DIVISION	02	CIRCUIT DESIGN
USOE CODE NO(S)		UNIT	02	AMPLIFIERS
		TERMOB NO.		13-016

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 02 AMPLIFIERS

TERMOB NO. 13-017

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TUBE, TRANSISTOR MANUAL

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A TWO STAGE PUSH-PULL POWER AMPLIFIER WITH PROVISIONS FOR FEEDBACK HAVING THE FOLLOWING SPECIFICATIONS:

INPUT	9 VDC
OUTPUT	2 WATTS INTO 8 OHM SPEAKER
GAIN	100 (MIN.)
FREQUENCY RESPONSE	10 HZ - 10 KHZ ± 3 DECIBELS

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH STEP JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

USOE CODE NO(S) ____________

UNIT 02 AMPLIFIERS

TERMOB NO. 13-017

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 03 OSCILLATORS

TERMOB NO. 13-018

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TUBE, SEMICONDUCTOR DATA HANDBOOK

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A TUNABLE OSCILLATOR HAVING THE FOLLOWING SPECIFICATIONS:

OUTPUT	SINE WAVE 2V (P-P)
TUNABLE RANGE	1000 KHZ - 2000 KHZ

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. _______________

PROGRAM	ELECTRONICS	DIVISION 02	CIRCUIT DESIGN
USOE CODE NO(S)		UNIT 03	OSCILLATORS
		TERMOB NO.	13-018

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 03 OSCILLATORS

TERMOB NO. 13-019

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TUBE, SEMICONDUCTOR DATA HANDBOOK

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A SYMMETRICAL, STABLE EMITTER COUPLED MULTIVIBRATOR HAVING THE FOLLOWING SPECIFICATIONS:

INPUT	18 VDC
OUTPUT	5V (P-P) AT 1 KHZ SYMMETRICAL SQUAREWAVE

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

USOE CODE NO(S) ____________

UNIT 03 OSCILLATORS

TERMOB NO. 13-019

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-020

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 TUBE, SEMICONDUCTOR DATA HANDBOOK

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A CURRENT SWEEP CIRCUIT HAVING THE FOLLOWING SPECIFICATIONS:

INPUT	2V (P-P) PULSE
OUTPUT	5V (P-P(AT 100 MA

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 02 CIRCUIT DESIGN

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-020

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-021

1.00 CONDITION

( ) 1.01 TEMPLATE
( ) 1.02 DRAWING BOARD AND ACCESSORIES
( ) 1.03 MICROELECTRONICS HANDBOOK - 5400 or 7400 SERIES

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A BCD DECODER USING A BINARY COUNTER AND NECESSARY GATES EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT GATES FROM THE MICROELECTRONICS HANDBOOK
( ) 2.03 SKETCH A LOGIC DIAGRAM
( ) 2.04 PROVIDE A PARTS LIST

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT IS FUNCTIONAL AND PRACTICAL TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 GATES SELECTED ARE MOST ECONOMICAL AND PRACTICAL
( ) 3.03 COMPLETED LOGIC DIAGRAM WITH ALL APPLICABLE LABELS
( ) 3.04 COMPLETE PARTS LIST WITH PART NUMBERS AND MANUFACTURER

MISOE NO. ________________

PROGRAM ELECTRONICS

USOE CODE NO(S) ________________

DIVISION 02 CIRCUIT DESIGN

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-021

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-022

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 DIGITAL LOGIC BOARDS
( ) 1.04 ASSOCIATED HARDWARE AS NEEDED
( ) 1.05 SEMICONDUCTOR DATA HANDBOOK

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN A 4-BIT BINARY COUNTER WITH PROVISIONS FOR INDICATOR LIGHTS AND A RESET HAVING THE FOLLOWING SPECIFICATIONS:

INPUT 1 HZ PULSE 0-3V
OUTPUT AS SPECIFIED ABOVE

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT FORMULAS AND COMPUTE VALUES BASED ON OVERALL CIRCUIT INPUT/OUTPUT SPECIFICATIONS
( ) 2.03 SELECT FORMULAS AND COMPUTE VALUES BASED ON DEVELOPED SUB-ASSEMBLY REQUIREMENTS
( ) 2.04 SKETCH SCHEMATIC DIAGRAM

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUIT OPERATES SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 WHICH DESCRIBE THE CIRCUIT SUFFICIENTLY AND PRODUCE VALUES FOR MORE DETAILED COMPUTATION
( ) 3.03 WHICH DESCRIBE SUB-ASSEMBLY SUFFICIENTLY AND PRODUCE VALUES FOR DETERMINATION OF COMPONENT VALUES
( ) 3.04 WITH THE VALUES OF ALL CONDUCTORS, COMPONENTS AND POTENTIALS CLEARLY SHOWN, USING ACCEPTED ELECTRONIC SYMBOLS AND TECHNIQUES FOR SCHEMATICS

MISOE NO. ____________

PROGRAM	ELECTRONICS	DIVISION 02	CIRCUIT DESIGN
USOE CODE NO(S)		UNIT 05	DIGITAL CIRCUITS
		TERMOB NO.	13-022

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 02 CIRCUIT DESIGN

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-023

1.00 CONDITION

( ) 1.01 LIST OF FORMULAS, TABLES, GRAPHS
( ) 1.02 SLIDE RULE/CALCULATOR
( ) 1.03 MICROELECTRONICS DATA HANDBOOK

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 DESIGN ALL OF THE GATES LISTED BELOW TO THE FOLLOWING SPECIFICATIONS:

AND GATE	INPUT	2 PULSE SOURCES
OR GATE		0 TO +3 V
NAND GATE		
NOR GATE	OUTPUT	0 TO 3 V
EXCLUSIVE OR GATE		

AND EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT APPROPRIATE NAND GATES (7400 SERIES) TO DEVELOP THESE GATES.
( ) 2.03 SKETCH A LOGIC DIAGRAM FOR EACH
( ) 2.04 DRAW TRUTH TABLE FOR EACH GATE.

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 CIRCUITS OPERATE SATISFACTORILY TO PRODUCE THE SPECIFIED RESULT TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 1 HOUR WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 GATE USEAGE WILL BE MINIMUM
( ) 3.03 LOGIC DIAGRAM WILL INCLUDE PIN NUMBERS, PART NUMBERS, PROPER SYMBOLOGY, AND CORRECT NOMENCLATURE
( ) 3.04 100% ACCURATE ON TRUTH TABLES

MISOE NO.

PROGRAM ELECTRONICS

USOE CODE NO(S)

DIVISION 02 CIRCUIT DESIGN

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-023

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 03 CIRCUIT CALIBRATION

UNIT 01 METERS

TERMOB NO. 13-024

1.00 CONDITION

( ) 1.01 VOM OUT OF CALIBRATION
( ) 1.02 VTVM OUT OF CALIBRATION
( ) 1.03 DVM OUT OF CALIBRATION
( ) 1.04 SERVICE MANUAL
( ) 1.05 TEST LEADS AND PROBER
( ) 1.06 REQUIRED TEST EQUIPMENT

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 CALIBRATE A METER EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 CALIBRATE METER
( ) 2.05 VERIFY AND INDICATE AREAS WHICH ARE OUT OF SPECIFICATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 METER CALIBRATED TO MANUFACTURER'S SPECIFICATIONS AND TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 AS SPECIFIED IN SERVICE MANUAL
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 FOLLOWING PROCEDURES RECOMMENDED IN SERVICE MANUAL
( ) 3.05 TO THE SATISFACTION OF THE PANEL

MISOE NO. ______________

PROGRAM	ELECTRONICS	DIVISION 03	CIRCUIT CALIBRATION
USOE CODE NO(S)		UNIT 01	METERS
		TERMOB NO.	13-024

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 03 CIRCUIT CALIBRATION

UNIT 02 POWER SUPPLIES

TERMOB NO. 13-025

1.00 CONDITION

( ) 1.01 POWER SUPPLY OUT OF CALIBRATION
( ) 1.02 SERVICE MANUAL
( ) 1.03 TEST LEADS AND PRO[illegible]
( ) 1.04 REQUIRED TEST EQUIP[illegible]

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CALIBRATE A POWER SUPPLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 CALIBRATE POWER SUPPLY
( ) 2.05 VERIFY AND INDICATE AREAS WHICH ARE OUT OF SPECIFICATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 POWER SUPPLY CALIBRATED TO MANUFACTURER'S SPECIFICATIONS AND TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 AS SPECIFIED IN SERVICE MANUAL
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURE
( ) 3.04 FOLLOWING PROCEDURES RECOMMENDED IN SERVICE MANUAL
( ) 3.05 TO THE SATISFACTION PANEL

MISOE NO. ______________

PROGRAM ELECTRONICS

USOE CODE NO(S) ______________

DIVISION 03 CIRCUIT CALIBRATION

UNIT 02 POWER SUPPLIES

TERMOB NO. 13-025

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ________________

PROGRAM ELECTRONICS

DIVISION 03 CIRCUIT CALIBRATION

UNIT 03 OSCILLOSCOPES

TERMOB NO. 13-026

1.00 CONDITION

( ) 1.01 SINGLE BEAM OSCILLOSCOPE OUT OF CALIBRATION
( ) 1.02 DUAL BEAM OSCILLOSCOPE OUT OF CALIBRATION
( ) 1.03 TWO CHANNEL OSCILLOSCOPE OUT OF CALIBRATION
( ) 1.04 FOUR CHANNEL OSCILLOSCOPE OUT OF CALIBRATION
( ) 1.05 APPLICABLE SERVICE MANUAL
( ) 1.06 TEST LEADS AND PROBES
( ) 1.07 REQUIRED TEST EQUIPMENT

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CALIBRATE AN OSCILLOSCOPE EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 CALIBRATE OSCILLOSCOPE
( ) 2.05 VERIFY AND INDICATE AREAS WHICH ARE OUT OF SPECIFICATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 OSCILLOSCOPE CALIBRATED TO MANUFACTURER'S SPECIFICATIONS AND TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 AS SPECIFIED IN SERVICE MANUAL
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
( ) 3.04 FOLLOWING PROCEDURE RECOMMENDED IN SERVICE MANUAL
( ) 3.05 TO THE SATISFACTION OF THE PANEL

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 03 CIRCUIT CALIBRATION

UNIT 03 OSCILLOSCOPES

TERMOB NO. 13-026

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 03 CIRCUIT CALIBRATION

UNIT 04 FUNCTION GENERATOR

TERMOB NO. 13-027

1.00 CONDITION

( ) 1.01 OSCILLATOR OUT OF CALIBRATION
( ) 1.02 FUNCTION GENERATOR OUT OF CALIBRATION
( ) 1.03 PULSE GENERATOR OUT OF CALIBRATION
( ) 1.04 SQUARE WAVE GENERATOR OUT OF CALIBRATION
( ) 1.05 APPLICABLE SERVICE MANUALS
( ) 1.06 TEST LEADS AND PROBES
( ) 1.07 REQUIRED TEST EQUIPMENT

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 CALIBRATE A FUNCTION GENERATOR EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 CALIBRATE FUNCTION GENERATOR
( ) 2.05 VERIFY AND INDICATE AREAS WHICH ARE OUT OF SPECIFICATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FUNCTION GENERATOR CALIBRATED TO MANUFACTURER'S SPECIFICATIONS AND TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 AS SPECIFIED IN SERVICE MANUAL
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURE
( ) 3.04 FOLLOWING PROCEDURE RECOMMENDED IN SERVICE MANUAL
( ) 3.05 TO THE SATISFACTION OF THE PANEL

MISOE NO. ____________

PROGRAM	ELECTRONICS	DIVISION	03	CIRCUIT CALIBRATION
USOE CODE NO(S)		UNIT	04	FUNCTION GENERATOR
		TERMOB NO.		13-027

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 01 RECTIFIERS

TERMOB NO. 13-028

1.00 CONDITION

( ) 1.01 FULL WAVE RECTIFIER WITH FILTERING
( ) 1.02 FULL WAVE BRIDGE RECTIFIER WITH FILTERING
( ) 1.03 HALF WAVE RECTIFIER WITH FILTERING
( ) 1.04 RECTIFIER CIRCUIT WITH VOLTAGE DIVIDER
( ) 1.05 SCHEMATIC DIAGRAMS
( ) 1.06 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A RECTIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 SELECT A RECTIFIER CIRCUIT TO BE TESTED
( ) 2.05 DETERMINE % RIPPLE
( ) 2.06 DETERMINE % REGULATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS AS DETERMINED BY A BOARD OF EXPERT RATERS. ALL CHECKS TO BE COMPLETED WITHIN 4 HOURS WITH EACH OPERATION JUDGED SATISFACTORY OR UNSATISFACTORY

( ) 3.02 USING TEST INSTRUMENTS OF SUFFICIENT SENSITIVITY AND CHARACTERISTIC TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

MISOE NO. __________

PROGRAM	ELECTRONICS	DIVISION 04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT 01	RECTIFIERS
		TERMOB NO.	13-028

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING
UNIT 02 AMPLIFIERS
TERMOB NO. 13-029

1.00 CONDITION

( ) 1.01 MULTI STAGE VOLTAGE AMPLIFIER
( ) 1.02 SINGLE STAGE VOLTAGE AMPLIFIER
( ) 1.03 COMMON BASE VOLTAGE AMPLIFIER
( ) 1.04 COMMON EMITTER VOLTAGE AMPLIFIER
( ) 1.05 COMMON COLLECTOR VOLTAGE AMPLIFIER
( ) 1.06 SCHEMATIC DIAGRAMS
( ) 1.07 SPECIFICATION SHEET
( ) 1.08 POWER SUPPLY
( ) 1.09 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST A DISCRETE COMPONENT SOLID STATE VOLTAGE AMPLIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE VOLTAGE GAIN
( ) 2.05 DETERMINE INPUT/OUTPUT IMPEDANCE
( ) 2.06 DETERMINE HIGH/LOW FREQUENCY CUTOFFS
( ) 2.07 DETERMINE POWER GAIN
( ) 2.08 DETERMINE FREQUENCY RESPONSE CURVE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

( ) 1.01 MULTI STAGE VOLTAGE AMPLIFIER
( ) 1.02 SINGLE STAGE VOLTAGE AMPLIFIER
( ) 1.03 COMMON BASE VOLTAGE AMPLIFIER
( ) 1.04 COMMON EMITTER VOLTAGE AMPLIFIER
( ) 1.05 COMMON COLLECTOR VOLTAGE AMPLIFIER
( ) 1.06 SCHEMATIC DIAGRAMS
( ) 1.07 SPECIFICATION SHEET
( ) 1.08 POWER SUPPLY
( ) 1.09 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST A DISCRETE COMPONENT SOLID STATE VOLTAGE AMPLIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE VOLTAGE GAIN
( ) 2.05 DETERMINE INPUT/OUTPUT IMPEDANCE
( ) 2.06 DETERMINE HIGH/LOW FREQUENCY CUTOFFS
( ) 2.07 DETERMINE POWER GAIN
( ) 2.08 DETERMINE FREQUENCY RESPONSE CURVE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.08 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

MISOE NO. ______________

PROGRAM	ELECTRONICS	DIVISION	04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT	02	AMPLIFIERS
		TERMOB NO.		13-029

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 02 AMPLIFIERS

TERMOB NO. 13-030

1.00 CONDITION

( ) 1.01 VACUUM TUBE POWER AMPLIFIER
( ) 1.02 CATHODE FOLLOWER AMPLIFIER
( ) 1.03 VACUUM TUBE VOLTAGE AMPLIFIER
( ) 1.04 CLASS A AMPLIFIER
( ) 1.05 CLASS B AMPLIFIER
( ) 1.06 CLASS C AMPLIFIER
( ) 1.07 SPECIFICATION SHEET
( ) 1.08 SCHEMATIC DIAGRAM
( ) 1.09 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A VACUUM TUBE AMPLIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE VOLTAGE GAIN
( ) 2.05 DETERMINE INPUT/OUTPUT IMPEDANCE
( ) 2.06 DETERMINE HIGH/LOW FREQUENCY CUTOFFS
( ) 2.07 DETERMINE POWER GAIN
( ) 2.08 DETERMINE FREQUENCY RESPONSE CURVE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

( ) 1.01 VACUUM TUBE POWER AMPLIFIER
( ) 1.02 CATHODE FOLLOWER AMPLIFIER
( ) 1.03 VACUUM TUBE VOLTAGE AMPLIFIER
( ) 1.04 CLASS A AMPLIFIER
( ) 1.05 CLASS B AMPLIFIER
( ) 1.06 CLASS C AMPLIFIER
( ) 1.07 SPECIFICATION SHEET
( ) 1.08 SCHEMATIC DIAGRAM
( ) 1.09 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST A VACUUM TUBE AMPLIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE VOLTAGE GAIN
( ) 2.05 DETERMINE INPUT/OUTPUT IMPEDANCE
( ) 2.06 DETERMINE HIGH/LOW FREQUENCY CUTOFFS
( ) 2.07 DETERMINE POWER GAIN
( ) 2.08 DETERMINE FREQUENCY RESPONSE CURVE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.08 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 04 CIRCUIT TESTING

UNIT 02 AMPLIFIERS

TERMOB NO. 13-030

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 02 AMPLIFIERS

TERMOB NO. 13-031

1.00 CONDITION

( ) 1.01 AUDIO IC AMPLIFIER
( ) 1.02 OPAMP
( ) 1.03 DC IC AMPLIFIER
( ) 1.04 VHF IC AMPLIFIER
( ) 1.05 SCHEMATIC DIAGRAM
( ) 1.06 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.07 POWER SUPPLY
( ) 1.08 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST AN INTEGRATED CIRCUIT AMPLIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE VOLTAGE GAIN
( ) 2.05 DETERMINE INPUT/OUTPUT IMPEDANCE
( ) 2.06 DETERMINE HIGH/LOW FREQUENCY CUTOFFS
( ) 2.07 DETERMINE POWER GAIN
( ) 2.08 DETERMINE FREQUENCY RESPONSE CURVE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.08 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA

( ) 1.01 AUDIO IC AMPLIFIER
( ) 1.02 OPAMP
( ) 1.03 DC IC AMPLIFIER
( ) 1.04 VHF IC AMPLIFIER
( ) 1.05 SCHEMATIC DIAGRAM
( ) 1.06 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.07 POWER SUPPLY
( ) 1.08 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST AN INTEGRATED CIRCUIT AMPLIFIER TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE VOLTAGE GAIN
( ) 2.05 DETERMINE INPUT/OUTPUT IMPEDANCE
( ) 2.06 DETERMINE HIGH/LOW FREQUENCY CUTOFFS
( ) 2.07 DETERMINE POWER GAIN
( ) 2.08 DETERMINE FREQUENCY RESPONSE CURVE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.08 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 04 CIRCUIT TESTING

UNIT 02 AMPLIFIERS

TERMOB NO. 13-031

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS.

DIVISION 04 CIRCUIT TESTING

UNIT 02 OSCILLATORS

TERMOB NO. 13-032

1.00 CONDITION

( ) 1.01 TUNED HARTLEY OSCILLATOR
( ) 1.02 MULTI-VIBRATOR OSCILLATOR
( ) 1.03 PHASE SHIFT OSCILLATOR
( ) 1.04 WEINBRIDGE OSCILLATOR
( ) 1.05 CRYSTAL OSCILLATOR
( ) 1.06 RELAXATION OSCILLATOR
( ) 1.07 COLPITTS OSCILLATOR
( ) 1.08 SPECIALTY CIRCUIT OSCILLATOR
( ) 1.09 SCHEMATIC DIAGRAMS
( ) 1.10 SPECIFICATIONS SHEET
( ) 1.11 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.12 POWER SUPPLY
( ) 1.13 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST AN OSCILLATOR TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE OUTPUT IMPEDANCE
( ) 2.05 DETERMINE TUNING RANGE
( ) 2.06 DETERMINE OUTPUT VOLTAGE

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH STEP JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCT VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

USOE CODE NO(S) ____________

UNIT 02 OSCILLATORS

TERMOB NO. 13-032

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 04 SPECIAL CIRCUITS

TERMOB NO. 13-033

1.00 CONDITION

( ) 1.01 SAWTOOTH/TRAPEZOIDAL GENERATOR
( ) 1.02 SQUARE WAVE GENERATOR
( ) 1.03 RAMP GENERATOR
( ) 1.04 PULSE GENERATOR
( ) 1.05 TRIANGULAR WAVE GENERATOR
( ) 1.06 SCHEMATIC DIAGRAM
( ) 1.07 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.08 SPECIFICATION SHEETS
( ) 1.09 POWER SUPPLY
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST A FUNCTION GENERATOR TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE OUTPUT VOLTAGE
( ) 2.05 DETERMINE DAMPING TIME CONSTANT
( ) 2.06 DEMONSTRATE WAVE FORMS

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 USE TEST INSTRUMENTATION OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE THEORETICAL DATA AS DETERMINED BY THE BOARD OF RATERS
( ) 3.06 TO SATISFACTION OF THE BOARD

MISOE NO. ______________

PROGRAM	ELECTRONICS	DIVISION 04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT 04	SPECIAL CIRCUITS
		TERMOB NO.	13-033

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-034

1.00 CONDITION

( ) 1.01 COLOR TELEVISION HORIZONTAL DEFLECTION CIRCUIT AND FLYBACK POWER SUPPLY
( ) 1.02 SCHEMATIC DIAGRAM
( ) 1.03 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.04 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.05 OSCILLOSCOPE
( ) 1.06 VTVM
( ) 1.07 VOM (CONVENTIONAL/DIGITAL)
( ) 1.08 TEST JIGS

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A COLOR TELEVISION HORIZONTAL DEFLECTION CIRCUIT WITH FLYBACK POWER SUPPLY TO DETERMINE CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE REGULATION
( ) 2.05 DETERMINE HIGH VOLTAGE VOLTAGE
( ) 2.06 DETERMINE DAMPER VOLTAGE
( ) 2.07 DETERMINE HORIZONTAL EFFICIENCY
( ) 2.08 DETERMINE HORIZONTAL LOCKING RANGE
( ) 2.09 DEMONSTRATE WAVE FORMS

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S

( ) 1.01 COLOR TELEVISION HORIZONTAL DEFLECTION CIRCUIT AND FLYBACK POWER SUPPLY
( ) 1.02 SCHEMATIC DIAGRAM
( ) 1.03 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.04 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.05 OSCILLOSCOPE
( ) 1.06 VTVM
( ) 1.07 VOM (CONVENTIONAL/DIGITAL)
( ) 1.08 TEST JIGS

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A COLOR TELEVISION HORIZONTAL DEFLECTION CIRCUIT WITH FLYBACK POWER SUPPLY TO DETERMINE CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE REGULATION
( ) 2.05 DETERMINE HIGH VOLTAGE VOLTAGE
( ) 2.06 DETERMINE DAMPER VOLTAGE
( ) 2.07 DETERMINE HORIZONTAL EFFICIENCY
( ) 2.08 DETERMINE HORIZONTAL LOCKING RANGE
( ) 2.09 DEMONSTRATE WAVE FORMS

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) 3.04 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.05 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.06 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.07 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.08 TO AN ACCURACY THAT WILL VALIDATE MANUFACTURER'S SPECIFICATIONS
( ) 3.09 TO SATISFACTION OF THE BOARD

MISOE NO. ____

PROGRAM ELECTRONICS

USOE CODE NO(S) ____

DIVISION 04 CIRCUIT TESTING

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-034

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-035

1.00 CONDITION

( ) 1.01 VACUUM TUBE RADIO
( ) 1.02 SCHEMATIC DIAGRAM
( ) 1.03 SERVICE MANUAL
( ) 1.04 TUBE TESTER
( ) 1.05 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A VACUUM TUBE RADIO TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 TEST TUBES
( ) 2.05 TEST POWER SUPPLY VOLTAGE
( ) 2.06 ALIGN IF'S
( ) 2.07 TEST SPEAKER
( ) 2.08 DEMONSTRATE RADIO OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 RADIO TESTED FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
( ) 3.04 FOLLOWING LOGICAL PROCEDURE
( ) 3.05 FOLLOWING LOGICAL PROCEDURE
( ) 3.06 FOLLOWING LOGICAL PROCEDURE
( ) 3.07 FOLLOWING LOGICAL PROCEDURE
( ) 3.08 TO SATISFACTION OF THE BOARD

MISOE NO. ______________

PROGRAM	ELECTRONICS	DIVISION 04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT 04	SPECIAL CIRCUITS AND DEVICES
		TERMOB NO.	13-035

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-036

1.00 CONDITION

( ) 1.01 SOLID STATE RADIO
( ) 1.02 SCHEMATIC DIAGRAM
( ) 1.03 SERVICE MANUAL
( ) 1.04 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A SOLID STATE RADIO TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 TEST TRANSISTORS
( ) 2.04 TEST POWER SUPPLY VOLTAGE
( ) 2.05 ALIGN IF'S
( ) 2.06 TEST SPEAKER
( ) 2.07 DEMONSTRATE RADIO OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 RADIO TESTED FOLLOWING PROPER PROCEDURE AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
( ) 3.04 FOLLOWING LOGICAL PROCEDURE
( ) 3.05 FOLLOWING LOGICAL PROCEDURE
( ) 3.06 FOLLOWING LOGICAL PROCEDURE
( ) 3.07 TO SATISFACTION OF THE BOARD

MISOE NO. ____________

PROGRAM	ELECTRONICS	DIVISION 04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT 04	SPECIAL CIRCUITS AND DEVICES
		TERMOB NO.	13-036

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 04 SPECIAL CIRCUITS AND DEVICES

TERMOB NO. 13-037

1.00 CONDITION

( ) 1.01 COLOR TV PICTURE TUBE
( ) 1.02 BLACK & WHITE TV PICTURE TUBE
( ) 1.03 SPECIFICATION SHEET
( ) 1.04 SERVICE MANUAL
( ) 1.05 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TEST A PICTURE TUBE TO DETERMINE ITS CHARACTERISTICS EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 TEST TUBE
( ) 2.05 DEMONSTRATE TUBE CHARACTERISTICS

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 PICTURE TUBE TESTED FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
( ) 3.04 FOLLOWING LOGICAL PROCEDURE
( ) 3.05 TUBE CONFORMS TO MANUFACTURER'S SPECIFICATIONS

MISOE NO. ____________________

PROGRAM	ELECTRONICS	DIVISION 04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT 04	SPECIAL CIRCUITS AND DEVICES
		TERMOB NO.	13-037

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-038

1.00 CONDITION

( ) 1.01 4 BIT BINARY COUNTER LOGIC CIRCUIT
( ) 1.02 OCTAL DECODER LOGIC CIRCUIT
( ) 1.03 DECIMAL DECODER LOGIC CIRCUIT
( ) 1.04 BCD COUNTER LOGIC CIRCUIT
( ) 1.05 CLOCK OSCILLATOR WITH TIME INCREMENTS LOGIC CIRCUIT
( ) 1.06 UP/DOWN COUNTER WITH PRESET LOGIC CIRCUITS
( ) 1.07 LOGIC DIAGRAMS
( ) 1.08 SCHEMATIC DIAGRAM
( ) 1.09 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.10 POWER SUPPLY
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST A LOGIC CIRCUIT TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 CHECK AND ZERO AS NECESSARY ALL TEST EQUIPMENT USED
( ) 2.04 DETERMINE TIMING DIAGRAM
( ) 2.05 DETERMINE OUTPUT VOLTAGE
( ) 2.06 DEMONSTRATE WAVEFORMS

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH STEP JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES
( ) [illegible].04 100% ACCURATE
( ) 3.05 ALL OUTPUTS AND INPUTS TO HAVE A LEVEL WITHIN MANUFACTURER'S SPECIFICATIONS
( ) 3.06 TO SATISFACTION OF THE BOARD

MISOE NO. ________________

PROGRAM	ELECTRONICS	DIVISION 04	CIRCUIT TESTING
USOE CODE NO(S)		UNIT 05	DIGITAL CIRCUITS
		TERMOB NO.	13-038

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-039

1.00 CONDITION

( ) 1.01 J-K FLIP-FLOP GATE
( ) 1.02 R-S FLIP-FLOP GATE
( ) 1.03 D FLIP-FLOP GATE
( ) 1.04 NAND GATE
( ) 1.05 OR GATE
( ) 1.06 NOR GATE
( ) 1.07 AND GATE
( ) 1.08 EXCLUSIVE OR GATE
( ) 1.09 TRUTH TABLE
( ) 1.10 SCHEMATIC DIAGRAM
( ) 1.11 LIST OF FORMULAS, TABLES, GRAPHS, ETC.
( ) 1.12 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TEST A GATE TO DETERMINE CIRCUIT CHARACTERISTICS EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 SELECT PROPER TEST EQUIPMENT
( ) 2.03 DETERMINE TIMING DIAGRAM
( ) 2.04 TEST TRUTH TABLES
( ) 2.05 DETERMINE OUTPUTS
( ) 2.06 DEMONSTRATE OUTPUTS

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 FOLLOWING PROPER PROCEDURES AND SAFETY PRECAUTIONS TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 OF SUFFICIENT SENSITIVITY AND CHARACTERISTICS TO PRODUCE VALID DATA
( ) 3.03 100% ACCURATE
( ) 3.04 100% ACCURATE
( ) 3.05 ALL OUTPUTS AND INPUTS TO HAVE A LEVEL WITHIN MANUFACTURER'S SPECIFICATIONS
( ) 3.06 TO SATISFACTION OF THE BOARD

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 04 CIRCUIT TESTING

USOE CODE NO(S) ____________

UNIT 05 DIGITAL CIRCUITS

TERMOB NO. 13-039

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-040

1.00 CONDITION

( ) 1.01 SOLID STATE VOLTAGE AMPLIFIER WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY

( ) 1.02 OPEN CIRCUIT

( ) 1.03 LOOSE CONNECTION

( ) 1.04 WEAK/DEFECTIVE COMPONENT (TRANSISTOR, DIODE, RESISTOR, CAPACITOR, TRANSFORMER, SPEAKER, SWITCH, OR INDUCTOR)

( ) 1.05 SHORT CIRCUIT

( ) 1.06 SCHEMATIC DIAGRAM

( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE-SHOOT A DEFECTIVE SOLID STATE AMPLIFIER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS

( ) 2.03 MAKE DC VOLTAGE MEASUREMENTS

( ) 2.04 MAKE RESISTANCE MEASUREMENTS

( ) 2.05 MAKE OTHER MEASUREMENTS AS REQUIRED

( ) 2.06 REPAIR AMPLIFIER

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED

( ) 3.03 FAULTY COMPONENT IS LOCATED

( ) 3.04 FAULTY COMPONENT IS LOCATED

( ) 3.05 FAULTY COMPONENT IS LOCATED

( ) 3.06 AMPLIFIER 100% OPERATIONAL

MISOE NO. ________________

PROGRAM ELECTRONICS
USOE CODE NO(S) __________

DIVISION 05 CIRCUIT DIAGNOSIS
UNIT 01 SUB-ASSEMBLY
TERMOB NO. 13-040

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-041

1.00 CONDITION

( ) 1.01 VACUUM TUBE AMPLIFIER WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 BROKEN WIRE
( ) 1.03 LOOSE CONNECTION
( ) 1.04 DIRTY CONTACT
( ) 1.05 BROKEN SWITCH
( ) 1.06 WEAK/BAD VACUUM TUBE
( ) 1.07 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSFORMER, ETC.)
( ) 1.08 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, RESISTOR, ETC.)
( ) 1.09 SHORT CIRCUIT
( ) 1.10 OPEN CIRCUIT
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.12 APPLICABLE TEST EQUIPMENT
( ) 1.13 SCHEMATIC DIAGRAM

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE-SHOOT A DEFECTIVE VACUUM TUBE AMPLIFIER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR AMPLIFIER

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 FAULTY COMPONENT IS LOCATED

( ) 1.01 VACUUM TUBE AMPLIFIER WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 BROKEN WIRE
( ) 1.03 LOOSE CONNECTION
( ) 1.04 DIRTY CONTACT
( ) 1.05 BROKEN SWITCH
( ) 1.06 WEAK/BAD VACUUM TUBE
( ) 1.07 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSFORMER, ETC.)
( ) 1.08 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, RESISTOR, ETC.)
( ) 1.09 SHORT CIRCUIT
( ) 1.10 OPEN CIRCUIT
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.12 APPLICABLE TEST EQUIPMENT
( ) 1.13 SCHEMATIC DIAGRAM

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE-SHOOT A DEFECTIVE VACUUM TUBE AMPLIFIER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR AMPLIFIER

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 FAULTY COMPONENT IS LOCATED
( ) 3.06 FAULTY COMPONENT IS LOCATED
( ) 3.07 AMPLIFIER 100% OPERATIONAL

MISOE NO. ____________________

PROGRAM ELECTRONICS

USOE CODE NO(S)

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-041

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-042

1.00 CONDITION

( ) 1.01 OSCILLATOR WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 A MULTI-VIBRATOR OSCILLATOR WITH ONE OR MORE OF THE FOLLOWING DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.03 BROKEN WIRE
( ) 1.04 LOOSE CONNECTION
( ) 1.05 DIRTY CONTACT
( ) 1.06 BROKEN SWITCH
( ) 1.07 WEAK/BAD VACUUM TUBE
( ) 1.08 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSISTOR, TRANSFORMER, ETC.)
( ) 1.09 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, TRANSISTOR, I.C., ETC.)
( ) 1.10 SHORT CIRCUIT
( ) 1.11 OPEN CIRCUIT
( ) 1.12 INCORRECT FREQUENCY
( ) 1.13 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.14 APPLICABLE TEST EQUIPMENT
( ) 1.15 SCHEMATIC DIAGRAM

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE OSCILLATOR EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR OSCILLATOR

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 1.01 OSCILLATOR WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 A MULTI-VIBRATOR OSCILLATOR WITH ONE OR MORE OF THE FOLLOWING DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.03 BROKEN WIRE
( ) 1.04 LOOSE CONNECTION
( ) 1.05 DIRTY CONTACT
( ) 1.06 BROKEN SWITCH
( ) 1.07 WEAK/BAD VACUUM TUBE
( ) 1.08 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSISTOR, TRANSFORMER, ETC.)
( ) 1.09 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, TRANSISTOR, I.C., ETC.)
( ) 1.10 SHORT CIRCUIT
( ) 1.11 OPEN CIRCUIT
( ) 1.12 INCORRECT FREQUENCY
( ) 1.13 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.14 APPLICABLE TEST EQUIPMENT
( ) 1.15 SCHEMATIC DIAGRAM

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE OSCILLATOR EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR OSCILLATOR

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 FAULTY COMPONENT IS LOCATED
( ) 3.06 FAULTY COMPONENT IS LOCATED
( ) 3.07 OSCILLATOR 100% OPERATIONAL

MISOE NO. ________________

PROGRAM ELECTRONICS

USOE CODE NO(S) ________________

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-042

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-043

1.00 CONDITION

( ) 1.01 COLOR T.V. HORIZONTAL DEFLECTION CIRCUIT WITH FLYBACK POWER SUPPLY WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 BROKEN WIRE
( ) 1.03 LOOSE CONNECTION
( ) 1.04 DIRTY CONTACT
( ) 1.05 BROKEN SWITCH
( ) 1.06 WEAK/BAD VACUUM TUBE
( ) 1.07 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSISTOR, TRANSFORMER, ETC.)
( ) 1.08 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, TRANSISTOR, I.C., ETC.)
( ) 1.09 SHORT CIRCUIT
( ) 1.10 OPEN CIRCUIT
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.12 APPLICABLE TEST EQUIPMENT
( ) 1.13 SCHEMATIC DIAGRAM

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE TELEVISION HORIZONTAL CIRCUIT WITH A FLY BACK POWER SUPPLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED

POWER SUPPLY WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY

( ) 1.02 BROKEN WIRE
( ) 1.03 LOOSE CONNECTION
( ) 1.04 DIRTY CONTACT
( ) 1.05 BROKEN SWITCH
( ) 1.06 WEAK/BAD VACUUM TUBE
( ) 1.07 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSISTOR, TRANSFORMER, ETC.)
( ) 1.08 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, TRANSISTOR, I.C., ETC.)
( ) 1.09 SHORT CIRCUIT
( ) 1.10 OPEN CIRCUIT
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.12 APPLICABLE TEST EQUIPMENT
( ) 1.13 SCHEMATIC DIAGRAM

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE TELEVISION HORIZONTAL CIRCUIT WITH A FLY BACK POWER SUPPLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR CIRCUIT

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 FAULTY COMPONENT IS LOCATED
( ) 3.06 FAULTY COMPONENT IS LOCATED
( ) 3.07 CIRCUIT 100% OPERATIONAL

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-043

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-044

1.00 CONDITION

( ) 1.01 4-BIT BINARY COUNTER WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 BROKEN WIRE
( ) 1.03 LOOSE CONNECTION
( ) 1.04 DIRTY CONTACT
( ) 1.05 BROKEN SWITCH
( ) 1.06 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSISTOR, TRANSFORMER, ETC.)
( ) 1.07 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, TRANSISTOR, I.C., ETC.)
( ) 1.08 SHORT CIRCUIT
( ) 1.09 OPEN CIRCUIT
( ) 1.10 BINARY COUNTER
( ) 1.11 BCD COUNTER
( ) 1.12 SHIFT REGISTER
( ) 1.13 UP/DOWN COUNTER
( ) 1.14 PRESETABLE UP/DOWN COUNER
( ) 1.15 PREPROGRAMMABLE READ ONLY MEMORY (PROM)
( ) 1.16 READ ONLY MEMORY (ROM)
( ) 1.17 DIVIDE BY N LOGIC CIRCUIT
( ) 1.18 LOGIC DIAGRAMS
( ) 1.19 SCHEMATIC DIAGRAMS
( ) 1.20 TIMING DIAGRAMS/TRUTH TABLES
( ) 1.21 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE COUNTER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 ISOLATE FAULTY OUTPUT
( ) 2.05 REPAIR OR REPLACE FAULTY COMPONENT
( ) 2.06 TEST CIRCUIT FOR OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE

( ) 1.01 4-BIT BINARY COUNTER WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 BROKEN WIRE
( ) 1.03 LOOSE CONNECTION
( ) 1.04 DIRTY CONTACT
( ) 1.05 BROKEN SWITCH
( ) 1.06 THERMAL FAILURE OF COMPONENT (RESISTOR, CAPACITOR, DIODE, TRANSISTOR, TRANSFORMER, ETC.)
( ) 1.07 OVER DRIVEN COMPONENT (CAPACITOR, DIODE, TRANSISTOR, I.C., ETC.)
( ) 1.08 SHORT CIRCUIT
( ) 1.09 OPEN CIRCUIT
( ) 1.10 BINARY COUNTER
( ) 1.11 BCD COUNTER
( ) 1.12 SHIFT REGISTER
( ) 1.13 UP/DOWN COUNTER
( ) 1.14 PRESETABLE UP/DOWN COUNER
( ) 1.15 PREPROGRAMMABLE READ ONLY MEMORY (PROM)
( ) 1.16 READ ONLY MEMORY (ROM)
( ) 1.17 DIVIDE BY N LOGIC CIRCUIT
( ) 1.18 LOGIC DIAGRAMS
( ) 1.19 SCHEMATIC DIAGRAMS
( ) 1.20 TIMING DIAGRAMS/TRUTH TABLES
( ) 1.21 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE COUNTER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 ISOLATE FAULTY OUTPUT
( ) 2.05 REPAIR OR REPLACE FAULTY COMPONENT
( ) 2.06 TEST CIRCUIT FOR OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 DEFECT(S) CORRECTED
( ) 3.06 COUNTER IS 100% OPERATIONAL

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

USOE CODE NO(S) ____________

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-044

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-045

1.00 CONDITION

( ) 1.01 AN INTEGRATED CIRCUIT AMPLIFIER WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 OPEN CIRCUIT
( ) 1.03 LOOSE CONNECTION
( ) 1.04 BAD I.C.
( ) 1.05 DEFECTIVE COMPONENT (SWITCH, RESISTOR, CAPACITOR, ETC.)
( ) 1.06 SHORT CIRCUIT
( ) 1.07 SCHEMATIC DIAGRAM
( ) 1.08 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT AN INTEGRATED CIRCUIT AMPLIFIER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 MAKE DC MEASUREMENTS
( ) 2.04 MAKE RESISTANCE MEASUREMENTS
( ) 2.05 REPAIR OR REPLACE DEFECTIVE COMPONENT
( ) 2.06 TEST AMPLIFIER

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC DEFECT IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 4 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY COMPONENT IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 DEFECT(S) CORRECTED
( ) 3.06 AMPLIFIER IS 100% OPERATIONAL

MISOE NO. ______________

PROGRAM ELECTRONICS

USOE CODE NO(S) ______________

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-045

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3 00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 01 SUB-ASSEMBLY

TERMOB NO. 13-046

1.00 CONDITION

( ) 1.01 VOLTAGE RECTIFIER WITH FILTER AND RESISTIVE LOAD WITH ONE OR MORE OF THE FOLLOWING CIRCUIT DEFECTS RESULTING IN FAILURE OF THE CIRCUIT TO OPERATE PROPERLY
( ) 1.02 OPEN CIRCUIT
( ) 1.03 LOOSE CONNECTION
( ) 1.04 WEAK/DEFECTIVE COMPONENT (TUBE, DIODE, RESISTOR, TRANSFORMER, CHOKE, CAPACITOR, SWITCH, OR FUSE)
( ) 1.05 SHORT CIRCUIT
( ) 1.06 SCHEMATIC DIAGRAM
( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE RECTIFIER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 ANALYZE SYMPTOMS
( ) 2.03 TEST ALL STAGES
( ) 2.04 MAKE DC VOLTAGE MEASUREMENTS
( ) 2.05 MAKE RESISTANCE MEASUREMENTS
( ) 2.06 MAKE OTHER MEASUREMENTS AS REQUIRED
( ) 2.07 REPAIR RECTIFIER

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 ALL SYMPTOMS NOTED
( ) 3.03 FAULTY STAGE IS LOCATED
( ) 3.04 FAULTY COMPONENT IS LOCATED
( ) 3.05 FAULTY COMPONENT IS LOCATED
( ) 3.06 FAULTY COMPONENT IS LOCATED
( ) 3.07 RECTIFIER IS 100% OPERATIONAL

MISOE NO. ____________

PROGRAM	ELECTRONICS	DIVISION	05	CIRCUIT DIAGNOSIS
USOE CODE NO(S)		UNIT	01	SUB-ASSEMBLY
		TERMOB NO.		13-046

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-047

1.00 CONDITION

( ) 1.01 GIVEN A BLACK AND WHITE T.V. WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO SOUND
( ) 1.03 STATIC
( ) 1.04 AUDIBLE HUM
( ) 1.05 INTERMITTENT SOUND
( ) 1.06 NO PICTURE
( ) 1.07 BAD FOCUS
( ) 1.08 FLASHES ON SCREEN
( ) 1.09 SMOKE
( ) 1.10 INTERMITTENT PICTURE
( ) 1.11 BURNING SMELL
( ) 1.12 SERVICE MANUAL
( ) 1.13 APPLICABLE TEST EQUIPMENT
( ) 1.14 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE BLACK AND WHITE T.V. EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES/TUBES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-047

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-048

1.00 CONDITION

( ) 1.01 GIVEN A TRANSISTOR RADIO WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO SOUND
( ) 1.03 STATIC
( ) 1.04 AUDIBLE HUM
( ) 1.05 INTERMITTENT SOUND
( ) 1.06 SMOKE
( ) 1.07 BURNING SMELL
( ) 1.08 SERVICE MANUAL
( ) 1.09 APPLICABLE TEST EQUIPMENT
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE TRANSISTOR RADIO EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-048

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-049

1.00 CONDITION

( ) 1.01 HAM TRANSMITTER
( ) 1.02 CB TRANSMITTER
( ) 1.03 UHF TRANSMITTER
( ) 1.04 VHF TRANSMITTER
( ) 1.05 MF TRANSMITTER
( ) 1.06 LF TRANSMITTER
( ) 1.07 VHF TRANSCEIVER
( ) 1.08 LORAN TRANSMITTER/RECEIVER
( ) 1.09 SERVICE MANUALS
( ) 1.10 NO/IMPROPER RF OUTPUT
( ) 1.11 STATIC IN SOUND
( ) 1.12 NO MODULATION
( ) 1.13 AUDIBLE HUM
( ) 1.14 INTERMITTENT SOUND MODULATION
( ) 1.15 SMOKE
( ) 1.16 BURNING SMELL
( ) 1.17 IMPROPER OUTPUT VOLTAGE
( ) 1.18 IMPROPER OUTPUT CURRENT
( ) 1.19 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE TRANSMITTER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY

( ) 1.01 HAM TRANSMITTER
( ) 1.02 CB TRANSMITTER
( ) 1.03 UHF TRANSMITTER
( ) 1.04 VHF TRANSMITTER
( ) 1.05 MF TRANSMITTER
( ) 1.06 LF TRANSMITTER
( ) 1.07 VHF TRANSCEIVER
( ) 1.08 LORAN TRANSMITTER/RECEIVER
( ) 1.09 SERVICE MANUALS
( ) 1.10 NO/IMPROPER RF OUTPUT
( ) 1.11 STATIC IN SOUND
( ) 1.12 NO MODULATION
( ) 1.13 AUDIBLE HUM
( ) 1.14 INTERMITTENT SOUND MODULATION
( ) 1.15 SMOKE
( ) 1.16 BURNING SMELL
( ) 1.17 IMPROPER OUTPUT VOLTAGE
( ) 1.18 IMPROPER OUTPUT CURRENT
( ) 1.19 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE TRANSMITTER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ____________

PROGRAM	ELECTRONICS	DIVISION 05	CIRCUIT DIAGNOSIS
USOE CODE NO(S)		UNIT 02	ASSEMBLY
		TERMOB NO.	13-049

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-050

1.00 CONDITION

( ) 1.01 GIVEN A VACUUM TUBE RADIO WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO SOUND
( ) 1.03 STATIC
( ) 1.04 AUDIBLE HUM
( ) 1.05 INTERMITTENT SOUND
( ) 1.06 SMOKE
( ) 1.07 BURNING SMELL
( ) 1.08 NONE OF THE ABOVE
( ) 1.09 SERVICE MANUAL
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE VACUUM TUBE RADIO EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES/TUBES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

USOE CODE NO(S) ____________

UNIT 02 ASSEMBLY

TERMOB NO. 13-050

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-051

1.00 CONDITION

( ) 1.01 GIVEN A LOW VOLTAGE DC POWER SUPPLY WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO VOLTAGE OUTPUT
( ) 1.03 LOW VOLTAGE OUTPUT
( ) 1.04 INTERMITTENT OUTPUT
( ) 1.05 EXCESSIVE HUM
( ) 1.06 POOR REGULATION
( ) 1.07 BURNING SMELL
( ) 1.08 NONE OF THE ABOVE
( ) 1.09 SERVICE MANUAL
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE LOW VOLTAGE DC POWER SUPPLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ______________

PROGRAM	ELECTRONICS	DIVISION 05	CIRCUIT DIAGNOSIS
USOE CODE NO(S)		UNIT 02	ASSEMBLY
		TERMOB NO.	13-051

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-052

1.00 CONDITION

( ) 1.01 GIVEN AN OSCILLOSCOPE WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO TRACE
( ) 1.03 BAD FOCUS
( ) 1.04 FLASHES ON SCREEN
( ) 1.05 SMOKE
( ) 1.06 INTERMITTENT TRACE
( ) 1.07 BURNING SMELL
( ) 1.08 NONE OF THE ABOVE
( ) 1.09 SERVICE MANUAL
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE OSCILLOSCOPE EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES/TUBES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ________________

PROGRAM	ELECTRICAL	DIVISION 05	CIRCUIT DIAGNOSIS
USOE CODE NO(S)		UNIT 02	ASSEMBLY
		TERMOB NO.	13-052

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-053

1.00 CONDITION

( ) 1.01 INDUSTRIAL ULTRASONIC WASHER WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO CLEANING ACTION
( ) 1.03 INADEQUATE CLEANING ACTION
( ) 1.04 BURNING SMELL
( ) 1.05 NONE OF THE ABOVE
( ) 1.06 SERVICE MANUAL
( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE ULTRASONIC WASHER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES/TUBES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-053

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 15-054

1.00 CONDITION

( ) 1.01 RADAR SET WITH DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO VIDEO
( ) 1.03 NO SYNCHRO
( ) 1.04 FLASHES ON SCOPE
( ) 1.05 PHONY CONTACTS
( ) 1.06 BURNING SMELL
( ) 1.07 NONE OF THE ABOVE
( ) 1.08 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.09 SERVICE MANUAL

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE RADAR SET EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES/TUBES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE BOARD

MISOE NO. ______

PROGRAM ELECTRONICS

USOE CODE NO(S) ______

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-054

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-055

1.00 CONDITION

( ) 1.01 GIVEN A RADIO DIRECTION FINDER WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO SOUND
( ) 1.03 STATIC
( ) 1.04 AUDIBLE HUM
( ) 1.05 INTERMITTENT SOUND
( ) 1.06 SMOKE
( ) 1.07 BURNING SMELL
( ) 1.08 NONE OF THE ABOVE
( ) 1.09 SERVICE MANUAL
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE RADIO DIRECTION FINDER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES/TUBES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE, CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS TO LOCATE SMALLEST FAULTY COMPONENT
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE PANEL

MISOE NO.

PROGRAM ELECTRONICS
USOE CODE NO(S)

DIVISION 05 CIRCUIT DIAGNOSIS
UNIT 02 ASSEMBLY
TERMOB NO. 13-055

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-056

1.00 CONDITION

( ) 1.01 GIVEN A TAPE RECORDER WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO SOUND
( ) 1.03 STATIC
( ) 1.04 AUDIBLE HUM
( ) 1.05 INTERMITTENT SOUND
( ) 1.06 SMOKE
( ) 1.07 BURNING SMELL
( ) 1.08 NONE OF THE ABOVE
( ) 1.09 SERVICE MANUAL
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE TAPE RECORDER EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS/FUSES
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING TROUBLE SHOOTING CHART AND/OR CIRCUIT SCHEMATIC
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC FAULTY PART, WIRE CONTACT, ETC., IS LOCATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS SO THAT THE SMALLEST FAULTY COMPONENT IS LOCATED
( ) 3.04 ACCORDING TO PROCEDURES RECOMMENDED IN SERVICE MANUAL BY ACCEPTED ELECTRONICS REPAIR PROCEDURE
( ) 3.05 TO THE SATISFACTION OF THE PANEL

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

USOE CODE NO(S) ____________

UNIT 02 ASSEMBLY

TERMOB NO. 13-056

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-057

1.00 CONDITION

( ) 1.01 GIVEN A VOM, VTVM, OR DVM WITH A DEFECT INDICATED BY ONE OR MORE OF THE FOLLOWING SYMPTOMS:
( ) 1.02 NO READING
( ) 1.03 NO CURRENT SCALE
( ) 1.04 NO DC SCALE
( ) 1.05 NO AC SCALE
( ) 1.06 NO OHM SCALE
( ) 1.07 BROKEN TEST LEADS
( ) 1.08 BROKEN CASE
( ) 1.09 SERVICE MANUAL
( ) 1.10 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE METER EMPLOYING THE FOLLOWING PROCEDURE:

( ) 2.02 CHECK CALIBRATION
( ) 2.03 ISOLATE DEFECT
( ) 2.04 REPAIR DEFECT
( ) 2.05 DEMONSTRATE OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE SPECIFIC DEFECT IS LOCATED AND REPAIRED TO NBS STANDARDS AND TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 3 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 LOCATING FAULT
( ) 3.03 SPECIFIC DEFECT IS ISOLATED
( ) 3.04 USING STRICTEST SAFETY PRECAUTIONS
( ) 3.05 100% OPERATIONAL

MISOE NO. ____________

PROGRAM ELECTRONICS

USOE CODE NO(S) ____________

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-057

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 130-58

1.00 CONDITION

( ) 1.01 GIVEN ONE OF THE INSTRUMENTS BELOW ISOLATE DEFECT THAT PREVENTS ITS NORMAL OPERATION
( ) 1.02 UNIVERSAL COUNTER
( ) 1.03 MULTI-FUNCTION COUNTER
( ) 1.04 FREQUENCY COUNTER
( ) 1.05 MICROWAVE FREQUENCY COUNTER
( ) 1.06 PRESET CONTROLLER/COUNTER
( ) 1.07 NORMALIZING COUNTER
( ) 1.08 PERIOD-RATIO COUNTER
( ) 1.09 TIME-INTERVAL OR EPUT COUNTER
( ) 1.10 SERVICE MANUALS
( ) 1.11 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE COUNTER ASSEMBLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL CIRCUIT BREAKERS
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING SERVICE MANUAL
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE DEFECT IS ISOLATED AND REPAIRED TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 5 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 CIRCUIT BREAKER OPERATIONAL
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.04 SUBMIT FINALIZED JOB REPORT. CIRCUIT REPAIRED
( ) 3.05 COUNTER IS 100% OPERATIONAL ON ALL FUNCTIONS

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

USOE CODE NO(S) ____________

UNIT 02 ASSEMBLY

TERMOB NO. 130-58

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-059

1.00 CONDITION

( ) 1.01 GIVEN ONE OF THE ASSEMBLIES BELOW ISOLATE THE DEFECT THAT PREVENTS NORMAL OPERATION
( ) 1.02 8 TRACK STEREO
( ) 1.03 CASSETTE TAPE STEREO
( ) 1.04 FM STEREO
( ) 1.05 8 TRACK - FM STEREO
( ) 1.06 CASSETTE - FM STEREO
( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.08 SERVICE MANUALS

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE STEREO ASSEMBLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 CHECK ALL FUSE RESISTORS, FUSES, AND/OR CIRCUIT BREAKERS
( ) 2.03 LOCATE SPECIFIC PROBLEM(S) USING SERVICE MANUAL
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE DEFECT IS ISOLATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 6 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FUSES AND BREAKER ARE OPERATIONAL
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.04 SUBMIT FINALIZED REPORT. CIRCUIT REPAIRED
( ) 3.05 STEREO IS 100% OPERATIONAL ON ALL FUNCTIONS

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

USOE CODE NO(S) ____________

UNIT 02 ASSEMBLY

TERMOB NO. 13-059

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-060

1.00 CONDITION

( ) 1.01 PA SYSTEM
( ) 1.02 BASIC ELECTRONIC TOOLS AND EQUIPMENT (TABLE T-3)
( ) 1.03 INSTALLATION MANUAL

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 INSTALL A PA SYSTEM ASSEMBLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 LOCATE SPEAKER FOR BEST ACOUSTICAL RESULTS
( ) 2.03 RUN CABLING
( ) 2.04 CHECK FOR SECURE CABLE CONNECTIONS
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 SPEAKER IS INSTALLED CORRECTLY TO APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 8 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 SPEAKERS PROPERLY LOCATED
( ) 3.03 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.04 NO SHORTS OR LOOSE CONNECTIONS
( ) 3.05 PA SYSTEM IS 100% OPERATIONAL ON ALL FUNCTIONS

MISOE NO. ________________

PROGRAM ELECTRONICS

USOE CODE NO(S) ________________

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-060

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ____________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-061

1.00 CONDITION

( ) 1.01 GIVEN ONE OF THE INSTRUMENTS BELOW LOCATE DEFECT THAT PREVENTS NORMAL OPERATION
( ) 1.02 RESISTANCE DECADE ASSEMBLY
( ) 1.03 CAPACITOR DECADE ASSEMBLY
( ) 1.04 INDUCTOR DECADE ASSEMBLY
( ) 1.05 SERVICE MANUALS
( ) 1.06 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

( ) 2.01 TROUBLE SHOOT A DEFECTIVE DECADE ASSEMBLY EMPLOYING THE FOLLOWING OPERATIONS:
( ) 2.02 LOCATE DEFECT
( ) 2.03 REPAIR OR REPLACE FAULTY COMPONENT
( ) 2.04 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

( ) 3.01 TO THE EXTENT THAT THE DEFECT IS ISOLATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 2 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY
( ) 3.02 FOLLOWING LOGICAL SEQUENCE AS DEFINED BY SERVICE MANUAL
( ) 3.03 SUBMIT FINALIZED JOB REPORT. CIRCUIT REPAIRED
( ) 3.04 DECADE ASSEMBLY IS 100% OPERATIONAL ON ALL FUNCTIONS

MISOE NO. ______

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

USOE CODE NO(S) ______

UNIT 02 ASSEMBLY

TERMOB NO. 13-061

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-062

1.00 CONDITION

( ) 1.01 DEFECTIVE DIGITAL LOGIC ASSEMBLY EMPLOYING THE USE OF 7400 SERIES ICS
( ) 1.02 OSCILLOSCOPE
( ) 1.03 VOM/DVM
( ) 1.04 TIMING DIAGRAM
( ) 1.05 LOGIC DIAGRAMS
( ) 1.06 WIRE LISTS
( ) 1.07 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE DIGITAL LOGIC ASSEMBLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 LOCATE DEFECTIVE GATE
( ) 2.03 REPAIR OR REPLACE IC
( ) 2.04 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE DEFECT IS ISOLATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 4 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AS DEFINED BY THE TIMING AND LOGIC DIAGRAMS
( ) 3.03 IC REPAIRED OR REPLACED
( ) 3.04 DIGITAL ASSEMBLY IS 100% OPERATIONAL ON ALL FUNCTIONS

MISOE NO. ________________

PROGRAM ELECTRONICS

USOE CODE NO(S) ________________

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-062

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

MISOE NO. ______________

PROGRAM ELECTRONICS

DIVISION 05 CIRCUIT DIAGNOSIS

UNIT 02 ASSEMBLY

TERMOB NO. 13-063

1.00 CONDITION

( ) 1.01 GIVEN ONE OF THE INSTRUMENTS BELOW ISOLATE DEFECT THAT PREVENTS NORMAL OPERATION
( ) 1.02 QUARTZ OSCILLATOR
( ) 1.03 AUDIO OSCILLATOR
( ) 1.04 SINE, SQUARE OSCILLATOR
( ) 1.05 FUNCTION GENERATOR
( ) 1.06 SIGNAL GENERATOR
( ) 1.07 FREQUENCY SYNTHESIZER
( ) 1.08 RF AND VHF OSCILLATOR
( ) 1.09 VHF SIGNAL GENERATOR
( ) 1.10 FM-AM SIGNAL GENERATOR
( ) 1.11 UHF SIGNAL GENERATOR
( ) 1.12 SWEEP OSCILLATOR
( ) 1.13 SERVICE MANUALS
( ) 1.14 BASIC ELECTRONICS TOOLS AND EQUIPMENT (TABLE T-3)

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME
( ) 2.01 TROUBLE SHOOT A DEFECTIVE OSCILLATOR ASSEMBLY EMPLOYING THE FOLLOWING OPERATIONS:

( ) 2.02 LOCATE SPECIFIC PROBLEM(S) USING SERVICE MANUAL
( ) 2.03 CHECK ALL CIRCUIT BREAKERS
( ) 2.04 REPAIR CIRCUIT
( ) 2.05 DEMONSTRATE NORMAL OPERATION

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME
( ) 3.01 TO THE EXTENT THAT THE DEFECT IS ISOLATED AND REPAIRED TO THE APPROVAL OF A BOARD OF EXPERT RATERS. TO BE COMPLETED WITHIN 5 HOURS WITH EACH OPERATION JUDGED AS SATISFACTORY OR UNSATISFACTORY

( ) 3.02 FOLLOWING LOGICAL SEQUENCE AND STRICTEST SAFETY PRECAUTIONS
( ) 3.03 CIRCUIT BREAKER OPERATIONAL
( ) 3.04 SUBMIT FINALIZED JOB REPORT. CIRCUIT REPAIRED
( ) 3.05 ASSEMBLY IS 100% OPERATIONAL ON ALL FUNCTIONS

MISOE NO. ____________

PROGRAM ELECTRONICS
USOE CODE NO(S) ____________

DIVISION 05 CIRCUIT DIAGNOSIS
UNIT 02 ASSEMBLY
TERMOB NO. 13-063

1.00 CONDITION

2.00 PERFORMANCE

GENERAL STATEMENT OF PERFORMANCE AND RESULTING OUTCOME

3.00 EXTENT

GENERAL STATEMENT OF EXTENT AND EXTENT OF RESULTING OUTCOME

TABLE T-3

BASIC ELECTRONICS TOOLS AND EQUIPMENT

SOLDERING IRON WITH ASSORTED TIPS
SOLDER OF VARIOUS
SOLDERING AID
SOLDER SUCKER
HEAT SINK TOOL
FLUX
LINE CORD
INSULATED WIRE, ASSORTED LENGTHS AND GAUGES
TEST LEADS AND PROBES
ALLIGATOR CLIPS AND BOOTS
LACING
TIE WRAPS
SLEEVING
NUMBERING TABS
HEAT SHRINK TUBING
TERMINALS, JACKS AND CONNECTORS
WIRE STRIPPERS
WIRE CUTTERS
CRIMPING TOOL
NEEDLE NOSE PLIERS
SLIP JOINT PLIERS
HEX DRIVER
SCREWDRIVER
KNIFE
ADJUSTABLE WRENCHES

DENTAL MIRROR
TEST JIGS AND DEVICES
SAFETY GLASSES
CHASSIS PUNCHES
SOCKET PUNCHES
ELECTRIC DRILL AND BITS
DISTORTION ANALYZER
FREQUENCY COUNTER
PULSE GENERATOR
OSCILLOSCOPE
SIGNAL GENERATOR
VOM (CONVENTIONAL/DIGITAL)
VTUM

SOLDERING AID
SOLDER SUCKER
HEAT SINK TOOL
FLUX
LINE CORD
INSULATED WIRE, ASSORTED LENGTHS AND GAUGES
TEST LEADS AND PROBES
ALLIGATOR CLIPS AND BOOTS
LACING
TIE WRAPS
SLEEVING
NUMBERING TABS
HEAT SHRINK TUBING
TERMINALS, JACKS AND CONNECTORS
WIRE STRIPPERS
WIRE CUTTERS
CRIMPING TOOL
NEEDLE NOSE PLIERS
SLIP JOINT PLIERS
HEX DRIVER
SCREWDRIVER
KNIFE
ADJUSTABLE WRENCHES
SCRIBER
TWEEZER

SAFFTY GLASSES
CHASSIS PUNCHES
SOCKET PUNCHES
ELECTRIC DRILL AND BITS
DISTORTION ANALYZER
FREQUENCY COUNTER
PULSE GENERATOR
OSCILLOSCOPE
SIGNAL GENERATOR
VOM (CONVENTIONAL/DIGITAL)
VTUM

Table T-4 Additional TERMOB Performance Statements

This form is provided for the addition of TERMOB performance statements to ensure more complete coverage of your program. Please provide a comprehensive performance statement (coded 2.01 on each TERMOB) for each area of deficiency that you have identified.

The performance statement need only be listed identified by the division and unit numbers of the deficient areas; the conditions and extents will be incorporated later.

1. Division________ Performance Statement________________

   Unit__________

2. Division________ Performance Statement________________

   Unit__________

3. Division________ Performance Statement________________

   Unit__________

4. Division________ Performance Statement________________

   Unit__________

5. Division________ Performance Statement________________

   Unit__________

6. Division________ Performance Statement________________

   Unit__________

Unit__________ ______________________________

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2. Division________ Performance Statement______________

Unit__________ ______________________________

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3. Division________ Performance Statement______________

Unit__________ ______________________________

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4. Division________ Performance Statement______________

Unit__________ ______________________________

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5. Division________ Performance Statement______________

Unit__________ ______________________________

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6. Division________ Performance Statement______________

Unit__________ ______________________________

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7. Division________ Performance Statement______________

Unit__________ ______________________________

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Table T-4 (Cont'd) Additional TERMOB Performance Statements

This form is provided for the addition of TERMOB performance statements to ensure more complete coverage of your program. Please provide a comprehensive performance statement (coded 2.01 on each TERMOB) for each area of deficiency that you have identified.

The performance statement need only be listed identified by the division and unit numbers of the deficient areas; the conditions and extents will be incorporated later.

8. Division________ Performance Statement____________________
Unit__________ ______________________________________
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9. Division________ Performance Statement____________________
Unit__________ ______________________________________
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10. Division________ Performance Statement____________________
Unit__________ ______________________________________
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11. Division________ Performance Statement____________________
Unit__________ ______________________________________
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12. Division________ Performance Statement____________________
Unit__________ ______________________________________
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13. Division________ Performance Statement____________________
Unit__________ ______________________________________
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Unit__________ ______________________________

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9. Division__________ Performance Statement______________________________

Unit__________ ______________________________

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10. Division__________ Performance Statement______________________________

Unit__________ ______________________________

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11. Division__________ Performance Statement______________________________

Unit__________ ______________________________

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12. Division__________ Performance Statement______________________________

Unit__________ ______________________________

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13. Division__________ Performance Statement______________________________

Unit__________ ______________________________

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14. Division__________ Performance Statement______________________________

Unit__________ ______________________________

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